

THE  
GLASGOW UNIVERSITY  
CALENDAR

FOR THE YEAR

1918-19



GLASGOW  
JAMES MACLEHOSE AND SONS, 51 ST. VINCENT ST.  
Publishers and Booksellers to the University  
1918

THE COMBINATION OF GOOD  
MATERIALS AND EXPERT  
CRAFTSMANSHIP WILL GIVE  
YOU ALL THAT CAN BE  
DESIRED IN CLOTHES . . . . .



Alexander Riley & Co.  
Tailors  
85 St. Vincent St., Glasgow

For Young and Old

# **ECLIPSE OATCAKES**

---


are an Ideal Food

---

**ASK FOR "ECLIPSE"**

Write for Catalogue and Sample Cuttings of "Cashalla" Underwear.

**GRANT & WATSON**



HOSIERS · OUTFITTERS  
SHIRTMAKERS  
60 ST VINCENT STREET  
GLASGOW  
AND AT  
33 SANDGATE : AYR

CARRY THE

***“R. & T.” Umbrella***

It ensures Comfort

Always.

**10/6**

**REID & TODD**

8 RENFIELD ST.

212 SAUCHIEHALL ST.

# BAIRD & TATLOCK

LIMITED

Scientific Instrument Makers and Laboratory Furnishers

45 Renfrew Street

GLASGOW

And at EDINBURGH, MANCHESTER, and LIVERPOOL

---

Contractors by Appointment to the War Office and G.P.O.  
Instrument Makers by Appointment to the Admiralty . . .

---

## BRITISH LABORATORY WARE

---

The Largest Stock of Library, Study, and  
.. .. Office Furniture in Scotland .. ..

---



ROLL-TOP DESKS



EXTENSION BOOKCASES

Catalogues on Application

**FRANCIS SMITH ::** CABINETMAKER &  
UPHOLSTERER :: ::

71 MITCHELL STREET, GLASGOW

(Removed from Gordon Street)

Established 1835

Telephones No. 366

61 St. Vincent Street, Glasgow, July, 1918.

# Glasgow University Calendar Advertising Sheet.

SESSION 1918-1919.

## Macmillan & Co.'s Publications

UNIVERSITY OF GLASGOW

M.A. Pass Examination, 1919.

### Latin.

#### Single Course Students.

	S. D.
Plautus.—Captivi. A. R. S. Hallidie, . . . . .	4 0
Terence.—Phormio. John Bond and A. S. Walpole, . . . . .	3 0
Virgil.—Georgics. Book III. With Notes and Vocabulary by T. E. Page, . . . . .	1 9
———Bucolics and Georgics. T. E. Page, . . . . .	6 0
Caesar.—Gallic War. Book IV. With Notes and Vocabulary by Clement Bryans, . . . . .	1 9
———Gallic War. John Bond and A. S. Walpole, . . . . .	5 0

#### Double Course Students.

Virgil.—Bucolics (Eclogues). With Notes and Vocabulary by T. E. Page, . . . . .	1 9
———Georgics. With Notes and Vocabulary. Book I., T. E. Page. Book II., J. H. Skrine. Book III., T. E. Page. Book IV., T. E. Page, . . . . . each	1 9
———Bucolics and Georgics. T. E. Page, . . . . .	6 0
Horace.—Satires. A. Palmer, . . . . .	6 0
———Epistles and Ars Poetica. A. S. Wilkins, . . . . .	6 0
Plautus.—Captivi. A. R. S. Hallidie, . . . . .	4 0
Catullus.—Select Poems. F. P. Simpson. The Text of this Edition is carefully expurgated for School use, . . . . .	4 0
Cicero.—Catiline Orations. A. S. Wilkins, . . . . .	3 0
Dill.—Roman Society from Nero to Marcus Aurelius, Second Edition, (net)	18 0
Tacitus.—Histories. Books I. and II. A. D. Godley, . . . . .	4 0
———Histories. Books III.—V. A. D. Godley, . . . . .	4 0
———Agricola. A. J. Church and W. J. Brodribb, . . . . .	2 6
———The Agricola. D. R. Stuart, . . . . .	2 0
Pliny.—Select Letters. E. T. Merrill, . . . . .	7 0
———Correspondence with Trajan. C. Plinii Caecilii Secundi Epistulae ad Traianum Imperatorem cum Elusdem Responsis. E. G. Hardy, (net)	12 0

### Greek.

#### Single Course Students.

Homer.—Iliad. Books I.-XII. W. Leaf and M. A. Bayfield, . . . . .	7 0
Æschylus.—Prometheus Vincetus. With Notes and Vocabulary by H. M. Stephenson, . . . . .	1 9
———Prometheus Vincetus. E. E. Sikes and St. J. B. Wynne Wilson, . . . . .	3 0
Plato.—Laches. M. T. Tatham, . . . . .	3 0

MACMILLAN & CO., LTD., LONDON, W.C. 2.

# Macmillan & Co.'s Publications

M.A. PASS EXAMINATION, 1919—*Continued.*

## Greek—*Continued.*

### Double Course Students.

	S.	D.
Aristophanes.—The Frogs. T. G. Tucker, . . . . .	4	0
Andocides.—De Mysteriis. W. J. Hickie, . . . . .	3	0
Bury.—History of Greece. 2nd Edition. Revised, . . . . .	10	0
——— History of Greece for Beginners, . . . . .	4	0
Greenidge.—Outlines of Greek Constitutional History, . . . . .	(net) 6	6
Thucydides. Book I. E. C. Marchant, . . . . .	4	0
——— Book II. E. C. Marchant, . . . . .	4	0
——— Book III. E. C. Marchant, . . . . .	4	0
Aristophanes.—The Acharnians of Aristophanes. Edited with Prose Translation, Critical Notes, and Commentary. W. J. M. Starkie. . . . .	(net) 12	6
Plutarch.—Life of Pericles. H. A. Holden, . . . . .	5	0

## English.

### ORDINARY CLASS.

Shakespeare.—Macbeth. K. Deighton. With an Appendix, . . . . .	2	0
——— Macbeth. J. C. Serlungeour, . . . . .	3	0
——— Macbeth. C. W. French, . . . . .	(net) 1	6
——— Macbeth. A. C. L. Brown, . . . . .	(net) 1	3
——— Twelfth Night. K. Deighton, . . . . .	2	0
——— Twelfth Night. E. P. Morton, . . . . .	(net) 1	6
——— Twelfth Night. W. M. Hart, . . . . .	(net) 1	3
——— The Tempest. K. Deighton, . . . . .	2	0
——— The Tempest. H. E. Greene, . . . . .	(net) 1	3
EVERSLEY EDITION of above with Notes, . . . . .	each 1	3
Chaucer.—The Prologue. A. W. Pollard, . . . . .	2	0
——— The Prologue, The Knight's Tale. M. H. Liddell, . . . . .	4	0
——— The Prologue, The Knight's Tale. A. Ingham, . . . . .	(net) 1	6
——— Works of Chaucer. A. W. Pollard, . . . . .	4	6
Palgrave.—Golden Treasury. Book IV. With Introduction and Notes. J. H. Fowler, . . . . .	2	0
——— Golden Treasury. Popular Edition, . . . . .	(net) 1	9
——— Notes to Palgrave's Golden Treasury. Books I.-IV., . . . . .	3	0
Johnson.—Life of Dryden. P. Peterson, . . . . .	3	0
——— Life of Pope. P. Peterson, . . . . .	3	0
Byron.—Childe Harold's Pilgrimage. Cantos III. and IV. E. E. Morris, . . . . .	2	0
——— Childe Harold's Pilgrimage. Cantos III. and IV. J. H. Fowler, . . . . .	1	3
——— Childe Harold. A. J. George, . . . . .	(net) 1	6

MACMILLAN & CO., LTD., LONDON, W.C. 2.

# Macmillan & Co.'s Publications

M.A. PASS EXAMINATION, 1919—Continued.

## English—Continued.

### INTERMEDIATE CLASS.

	S. D.
Shakespeare.—Hamlet. K. Deighton, . . . . .	3 0
——— Hamlet. L. A. Sherman, . . . . .	(net) 1 6
——— Hamlet. G. P. Baker, . . . . .	(net) 1 3
——— Romeo and Juliet. K. Deighton, . . . . .	3 0
——— Romeo and Juliet. W. H. Neilson and A. H. Thorndike, . . . . .	(net) 1 3
——— King Lear. K. Deighton. With an Appendix, . . . . .	2 0
——— King Lear. V. C. Gildersleeve, . . . . .	(net) 1 3
——— King Lear. P. M. Buck, . . . . .	(net) 1 6
EVERSLEY EDITION of above, with Notes, . . . . .	each 1 3
Palgrave.—Golden Treasury. Book Second. W. Bell, . . . . .	2 0
——— Golden Treasury. Book Third. J. H. Fowler, . . . . .	2 0
——— Golden Treasury. Popular Edition, . . . . .	1 9
——— Notes to Palgrave's Golden Treasury. Books I.-IV., . . . . .	3 0
Boswell's Life of Johnson. Abridged. M. H. Watson, . . . . .	(net) 1 6
Lamb.—The Essays of Elia. N. L. Hallward and S. C. Hill.	
1st Series, . . . . .	3 6
2nd Series, . . . . .	3 6
——— Essays of Elia. H. J. Robins, . . . . .	(net) 1 6

## French.

### ORDINARY AND INTERMEDIATE CLASSES.

Racine.—Andromaque. C. A. Jaccard. [ <i>In the Press.</i> ]	
——— Britannicus. E. Pellissier, . . . . .	2 6
Molière.—Les Femmes Savantes. G. E. Fasnacht, . . . . .	1 3
——— Les Précieuses Ridicules. G. E. Fasnacht, . . . . .	1 3
La Fontaine.—Select Fables. L. M. Moriarty, . . . . .	3 0
La Bruyère.—Les Caractères (Selections). E. Pellissier, . . . . .	3 0

## German.

### ORDINARY CLASS.

Lessing.—Minna von Barnhelm. S. W. Cutting, . . . . .	3 0
——— Minna von Barnhelm. C. Merk, . . . . .	3 0
——— Nathan der Weise. G. O. Currie, . . . . .	3 0
Goethe.—Gotz von Berlichingen. H. A. Bull, . . . . .	2 6
Schiller.—Die Jungfrau von Orleans. J. Gostwick, . . . . .	3 0
——— Jungfrau von Orleans. W. Humphreys, . . . . .	3 0
——— Wallenstein. M. Winkler, . . . . .	5 0

MACMILLAN & CO., LTD., LONDON, W.C. 2.

# MACMILLAN'S NEW BOOKS

- Lord Lister.** By Sir Rickman John Godlee, Bart., K.C.V.O., F.R.C.S. With s. d.  
Portraits and other Illustrations. Second Edition, - - - (net) 18 0
- Sir William Ramsay, K.C.B., F.R.S. : Memorials of his Life and Work.**  
By Sir William A. Tilden, F.R.S. With Portraits, - - - (net) 10 0
- The Life of Sophia Jex-Blake.** By Margaret Todd, M.D. ("Graham Travers"). With Portraits, - - - (net) 18 0
- A Commentary to Kant's Critique of Pure Reason.** By Norman Kemp Smith, D.Phil., M'Cosh Professor of Philosophy in Princeton University, (net) 21 0
- An Elementary Treatise on Curve Tracing.** By Percival Frost, Sc.D., F.R.S. Fourth Edition. Revised by R. J. T. Bell, M.A., D.Sc., Lecturer in Mathematics, University of Glasgow, - - - (net) 12 6
- The Manufacture of Intermediate Products for Dyes.** By John Cannell Cain, D.Sc. (Manchester), Editor of the "Journal of the Chemical Society"; Examiner in Coal-Tar Colouring Matters to the City and Guilds of London Institute. With 25 illustrations, - - - (net) 10 0
- A Text-Book of Physics for the Use of Students of Science and Engineering.** By J. Duncan, Wh. Ex., M.I.Mech.E., and S. G. Starling, B.Sc., A.R.C.Sc., - - - 15 0

*Also in Parts.*

Dynamics. 5s.	Heat, Light, and Sound. 6s.	Magnetism and Electricity, 4s.
Heat. 3s. 6d.	Light and Sound. 3s. 6d.	

- A Class-Book of Organic Chemistry.** By J. B. Cohen, Ph.D., B.Sc., F.R.S., 4 6
- A Text-Book of Thermo-Chemistry and Thermo-Dynamics.** By Prof. Otto Sackur, Ph.D. Translated and Revised by G. E. Gibson, Ph.D., (net) 12 0
- Essentials of Practical Geography.** By B. C. Wallis, B.Sc.(Lond.), F.R.G.S. With Maps and Illustrations. *Practical Modern Geographics*, 4 6

## Higher Pure Mathematics.

- Macrobert.**—Functions of a Complex Variable, - - - (net) 12 0
- Gibson.**—Elementary Treatise on the Calculus, - - - 8 6
- Introduction to the Calculus, - - - 4 6
- Elementary Treatise on Graphs, - - - 4 6
- Gibson and Pinkerton.**—Elements of Analytical Geometry, - - - 8 6
- Lock and Child.**—New Trigonometry for Schools and Colleges, - - - 7 0
- Carslaw.**—Plane Trigonometry.  
Part I., 3s. Part II., 3s. Complete, 5s. Solutions. Part I., 4s. 6d. net.  
Part II., 4s. 6d. net. Complete, 8s. net.
- Loney.**—Elements of Co-ordinate Geometry. Seventh Ed., - - - 7 0  
Key. By A. S. Gosset-Tanner, - - - (net) 10 0
- C. Smith.**—Elementary Treatise on Conic Sections by the Methods of Co-ordinate Geometry. New Edition. Revised and Enlarged, - - - 8 6
- Bell.**—Elementary Treatise on Co-ordinate Geometry of Three Dimensions. Second Edition, - - - (net) 12 6
- Durell.**—Course of Plane Geometry for Advanced Students.  
Part I., 6s. 6d. net; Part II., 10s. net.
- Milne.**—Projective Geometry for Schools and Colleges, - - - 3 0
- Smart.**—First Course in Projective Geometry, - - - 8 6
- Bromwich.**—Introduction to the Theory of Infinite Series, - - - (net) 18 0
- Muir.**—Theory of Determinants in the Historical Order of Development.  
Vol. I. Part I. General Determinants up to 1841. Part II. Special Determinants up to 1841. 21s. net. Vol. II. The Period 1841 to 1860, (net) 21 0

MACMILLAN & CO., LTD., LONDON, W.C. 2.

# Macmillan & Co.'s Publications

## HIGHER PURE MATHEMATICS.—Continued.

	S. D.
Dixon.—Elliptic Functions, . . . . .	5 0
Gray and Mathew.—Treatise on Bessel Functions, . . . . .	(net) 14 0
Forsyth.—Differential Equations. 4th Edition, thoroughly revised, . . . . .	(net) 17 0
Page.—Ordinary Differential Equations, . . . . .	6 6
Joly.—Manual of Quaternions, . . . . .	(net) 12 6
Kelland & Tait.—Introduction to Quaternions. Revised by C. G. Knott, . . . . .	8 6
Todhunter.—Differential Calculus. (Key, 12s. 6d.), . . . . .	12 6
——— Integral Calculus and its Applications. (Key, 12s. 6d.), . . . . .	12 6

## Applied Mathematics.

Gray.—Treatise on Dynamics, . . . . .	(net) 10 0
Turner.—Graphical Methods in Applied Mathematics, . . . . .	7 0
Roberts.—Treatise on Elementary Dynamics, . . . . .	5 0
Greaves.—Treatise on Elementary Statics, . . . . .	5 0
——— Statics for Beginners, . . . . .	3 6
Macgregor.—Elementary Treatise on Kinematics and Dynamics, . . . . .	12 6
Lock.—Elementary Statics. (Key, 10s.), . . . . .	4 0
——— Elementary Dynamics. (Key, 10s.), . . . . .	4 0
Dobbs.—Elementary Geometrical Statics, . . . . .	8 6
Hertz.—Principles of Mechanics. Translated by D. E. Jones and J. T. Whalley, . . . . .	(net) 12 6
Barnard.—Elementary Dynamics of the Particle and Rigid Body, . . . . .	6 0
Hicks.—Dynamics of Particles and Solids, . . . . .	7 6
Sanderson.—Hydrostatics for Beginners, . . . . .	3 0
Greenhill.—Treatise on Hydrostatics, . . . . .	8 6
Silberstein.—The Theory of Relativity, . . . . .	(net) 12 6
——— Vectorial Mechanics, . . . . .	(net) 10 0

## Natural Philosophy.

Allen—Moore.—A Text-Book of Practical Physics, . . . . .	(net) 8 6
Vol. I. (Part I. Properties of Matter), 3s. net. Vol. II. (Parts II., III., and IV., Sound, Light, and Heat), 3s. net. Vol. III. (Parts V. and VI., Magnetism and Electricity), 3s. net. Parts I. and IV., 4s. net.	
Aldous.—Elementary Course of Physics. Complete, . . . . .	7 6
Stewart.—Elementary Physics, . . . . .	5 0
Stewart & Gee.—Elementary Practical Physics.	
Vol. I. General Physical Processes, 7s. Vol. II. Electricity and Magnetism, 10s. Vol. III. Part I. Practical Acoustics. By C. L. Barnes, 5s.	
Schuster and Lee.—Intermediate Course of Practical Physics, . . . . .	6 0
Robson.—Practical Exercises in Heat. Second Edition, . . . . .	3 0
Gregory and Hadley.—Class Book of Physics, . . . . .	5 6
Edser.—General Physics for Students, . . . . .	8 6
——— Heat for Advanced Students, . . . . .	5 6
——— Light for Students, . . . . .	7 0
Clay.—Practical Exercises in Light, . . . . .	3 0
——— Treatise on Practical Light, . . . . .	(net) 12 6
Preston.—Theory of Light. 4th Edition. Thoroughly revised, . . . . .	(net) 15 0
——— Theory of Heat. Third Edition. Edited by Prof. J. R. Cotter, . . . . .	Shortly
Daniell.—Physics for Students of Medicine, . . . . .	4 6
——— Text-Book of the Principles of Physics. New Edition, . . . . .	(net) 17 0
Hadley.—Practical Exercises in Electricity and Magnetism, . . . . .	3 0
——— Magnetism and Electricity for Students, . . . . .	7 0

MACMILLAN & CO., LTD., LONDON, W.C. 2.

# PUBLICATIONS OF BLACKIE & SON, LTD. FOR GLASGOW UNIVERSITY EXAMINATIONS.

## PRELIMINARY EXAMINATION.

### ENGLISH—GROUP A.

- Shakespeare—Julius Cæsar.** WARWICK EDITION, 1s. 9d. net. JUNIOR SCHOOL  
EDITION, 10d. PICTURE EDITION, 1s. 6d. PLAIN-TEXT EDITION, 6d.  
**Dryden—Essay of Dramatic Poesy.** Edited by D. Nichol Smith, Net 1s. 9d.  
**Scott—Old Mortality.** Edited by W. Keith Leask, M.A., .. .. Net 1s. 9d.

### ENGLISH—GROUP B.

- Shakespeare—Henry IV., Part I.** WARWICK EDITION, 1s. 9d. net. JUNIOR SCHOOL  
EDITION, 10d. PICTURE EDITION, 1s. 6d. PLAIN-TEXT EDITION, 6d.  
**Coleridge—The Ancient Mariner,** .. .. 4d.  
**Macaulay—Essay on Milton.** Edited by John Downie, M.A., .. Net 1s. 9d.

### FRENCH.

- Molière—Le Bourgeois Gentilhomme.** Edited by Maurice  
Gerthwohl, Ph.D., Litt.D., L. es L., .. .. Net 10d.  
**About—Le Roi des Montagnes.** Edited by James P. Park, .. Net 9d.  
**Daudet—Lettres de Mon Moulin.** Contes Choisis. E. J. A. Groves, .. 5d.

### GERMAN.

- Goethe—Hermann und Dorothea.** Select Scenes. J. F. Schilling, Net 6d.  
**Heine—Die Harzreise.** Selections. Edited by W. G. Etheridge, M.A., Net 6d.

## M.A. PASS EXAMINATION.

### LATIN.

- Plautus—Captivi.** Edited by Rev. J. Henson, M.A., .. Net 1s. 6d.  
**Terence—Phormio.** Edited by W. Cecil Laming, M.A. (*Without Vocab.*), Net 2s. 6d.  
**Virgil—Georgics II., III.** S. E. Winbolt, M.A., .. Each Net 1s. 6d.  
—**Georgics II., III.** Plain Text Edition, .. .. Each 8d.

### ENGLISH.

- Shakespeare—Hamlet.** Edited by E. K. Chambers, M.A., .. Net 1s. 9d.  
—**King Lear.** Edited by D. Nichol Smith, M.A., .. Net 1s. 9d.  
—**Macbeth.** Edited by E. K. Chambers, M.A., .. Net 1s. 9d.  
—**Tempest, The.** Edited by F. S. Boas, M.A., .. Net 1s. 9d.  
—**Twelfth Night.** Edited by A. D. Innes, M.A., .. Net 1s. 9d.  
**Byron—Child Harold's Pilgrimage.** Cantos III. and IV. Edited  
by John Downie, M.A., and David Frew, B.A., .. Net 9d.  
**Boswell—Life of Johnson (1763-1797).** .. .. 9d.  
**Chaucer—Prologue.** Edited by E. F. Willoughby, .. Net 1s.  
—**Knights Tale.** With Introduction and Glossary, .. .. 9d.

### FRENCH.

- Hugo—Hernani.** Edited by F. W. Odgers, M.A., .. Net 10d.  
**Molière—Les Femmes Savantes.** Edited by G. H. Clarke, M.A., .. Net 10d.  
—**Les Précieuses Ridicules.** Edited by G. H. Clarke, M.A., .. Net 10d.  
**Racine—Andromaque.** Edited by E. J. A. Groves, L. es L., .. Net 10d.  
**La Bruyère—Caractères.** Edited by J. Laffitte, B. es L., .. 5d.  
**La Fontaine—Shorter Fables.** Edited by A. H. Wall, M.A., .. 7d.  
—**Longer Fables.** Edited by A. H. Wall, M.A., .. 5d.  
—**Choix de Fables de la Fontaine.** Avec commentaire par H.  
Taine, rédigé par H. B. Dawes, B.A., .. 1s. 6d.

### ITALIAN.

- Selections from the Italian Poets.** With Critical Introductions  
by Ernesto Grillo, D. Litt., .. Net 7s. 6d.  
**Selections from the Italian Prose Writers.** With Critical In-  
troductions by Ernesto Grillo, D. Litt., .. Net 7s. 6d.  
**Italian Grammar** (*In Preparation*).

### SCOTTISH HISTORY.

- Outline of the Relations between England and Scotland**  
(500-1797). By Prof. Robert S. Rait, .. Net 7s. 6d.  
**The Scottish Parliament before the Union of the Crowns.**  
By Prof. Robert S. Rait, .. Net 5s. 0d.

### CELTIC.

- The Literature of the Celts.** By Magnus Maclean, .. Net 7s. 6d.  
**ELECTRICAL ENGINEERING**  
**Electricity and its Practical Applications.** By Prof. Magnus Maclean, .. Net 7s. 6d.

Complete Catalogue on application.

**BLACKIE & SON, LTD., LONDON, GLASGOW, BOMBAY.**

# OXFORD UNIVERSITY PRESS

**Great European Treaties of the Nineteenth Century.** Edited with Introductions to the special Treaties, and Notes, by Sir AUGUSTUS OAKES and R. B. MOWAT; with a general Introduction by Sir ERLE RICHARDS. With Maps. Crown 8vo. 7s. 6d. net. [*Histories of Belligerents Series.*]

**France: Mediaeval and Modern.** A History. By A. HASSALL. With Maps. Crown 8vo. 5s. net. [*Histories of Belligerents Series.*]

**Letters on the Spirit of Patriotism and on the Idea of a Patriot King.** By VISCOUNT BOLINGBROKE. With an Introduction by A. HASSALL. Fcap. 8vo. 2s. 6d. net.

**Swift's Conduct of the Allies.** Edited, with Introduction and Notes, by C. B. WHEELER. 1016. Crown 8vo. With Two Maps. 2s. 6d. net.

**Past and Present.** By THOMAS CARLYLE. Edited, with Notes and an Introduction, by A. M. D. HUGHES. Crown 8vo. 3s. 6d. net.

**Frontiers; a Study in Political Geography.** By C. B. FAWCETT. With Diagrams. Crown 8vo. 3s. net.

**A History of Ancient Coinage, 700-300 B.C.** By PERCY GARDNER, Professor of Classical Archaeology in the University of Oxford. 8vo, with 11 Plates. 18s. net.

## OXFORD LIBRARY OF TRANSLATIONS.

Foolscap 8vo. 3s. 6d. net each volume.

**Longinus on the Sublime**, translated by A. O. PRICKARD. With an Introduction and Appendixes—Specimens from Greek literary critics, Latin critics, Bishop Lowth—Index of Proper Names.

**The Works of Lucian**, complete except for some works considered spurious and some omissions by way of expurgation, translated into English by H. W. and the late F. G. FOWLER. Four Volumes.

## OXFORD CLASSICAL TEXTS.

**Cicero's Orationes pro Milone Cæsarianae Philippicae recognovit A. C. CLARK.** Editio altera 1917. Crown 8vo. Cloth, interleaved, 7s.; cloth, 3s.; paper cover, 2s. 6d.; on Oxford India Paper with Orationes Rosc. Am., Imper. Pomp., Clu., Cat., Mur., Cael., recognovit A. C. CLARK. 18s. 6d.

The text was originally published in 1900, though since reprinted, and the present edition has been extensively revised.

**Stati Silvae;** recognovit J. S. PHILLIMORE. Editio altera 1918. Crown 8vo. Cloth, interleaved, 6s.; cloth, 3s. 6d.; paper cover, 3s.; on Oxford India Paper with Thebais and Achilles, recognovit H. W. GARROD. 10s. 6d.

**Things New and Old.** Poems by J. S. PHILLIMORE. Crown 8vo. 5s. net.

**The Oxford Book of French Verse, XIII-XIX Century**, chosen and edited by ST. JOHN LUCAS. With an Introduction, Notes, and Indexes. From 7s. 6d. net. On Oxford India Paper, os. net.

**Racine's Andromaque.** Edited, with Introduction and Notes, by T. B. RUDMOSE-BROWN. 3s. 6d.

## THE OXFORD MOLIERE.

**Les Œuvres complètes de Molière.** Crown 8vo. Printed on Oxford India Paper. 5s. net. Miniature edition, four vols. 32mo (4½ × 2½), in case, 14s.

**A Short History of French Literature**, from the Earliest Texts to the Close of the Nineteenth Century. By G. SAINTSBURY. Seventh Edition, revised 1917. Crown 8vo. 8s. 6d. net.

**The Complete Works of Geoffrey Chaucer in Poetry and Prose**, together with the two fragments of the Romaunt of the Rose not by Chaucer, the whole edited from many manuscripts, with introduction, appendix of variations and emendations, and two glossarial indexes (i. to Chaucer, ii. to the non-Chaucerian fragments), by the late WALTER W. SKEAT. The introduction comprises a life of Chaucer, a list of his writings and editions, and seven pages of aids to Chaucer's grammar, versification, and pronunciation. With a photogravure of Hoccleve's portrait of Chaucer. Large Cr. 8vo. From 4s. 6d. net.

**Arnold's Essays in Criticism.** Edited, with an Introduction, by C. A. MILLS, and Notes by L. SMITH. Crown 8vo. 3s. 6d. net.

**The Complete Poetical Works of Sir Walter Scott**, in the standard text of Lockhart's editions of 1833 and 1841, edited by J. LOGIE ROBERTSON after collation with other editions. Special care has been given to the editing of the mottoes and lyrical fragments from the Novels, and several faults in previous editions are corrected. With the author's introductions; notes (pp. 241) by him and Lockhart, supplemented where necessary by the present editor; and a photogravure portrait from the painting by Sir H. RAEBURN. Large Crown 8vo. From 4s. 6d. net.

**HUMPHREY MILFORD: LONDON, EDINBURGH, GLASGOW, NEW YORK, TORONTO, MELBOURNE, AND BOMBAY.**

# James Thin's Publications

**Burns' (Robt.) Complete Works, Poems and Prose.** Edited with Explanatory Notes, Various Readings, Glossary and Indices, by W. SCOTT DOUGLAS. Illustrated with Portraits, Vignettes, and Frontispieces from Drawings by SAM BOUGH, R.S.A., W. E. LOCKHART, R.S.A., CLARK STANTON, A.R.S.A., etc. 6 vols., roy. 8vo, £1 15s. net. Published at £4 10s.

— **Complete Poetical Works.** Edited by W. SCOTT DOUGLAS. With Essay on the Life and Genius of the Poet by the late Professor JOHN NICHOL, LL.D. Illustrated with Twelve Photogravures after Drawings by MARSHALL BROWN. 4 vols., crown 8vo, cloth, 12s.

**Cunningham (Principal John).—The Church History of Scotland,** from the Commencement of the Christian Era to the Present Time. By JOHN CUNNINGHAM, D.D., Principal of St. Mary's College, St. Andrews. Second Edition. 2 vols., post 8vo, 16s.

**Macdonald (W. J.).—Higher Geometry, containing an Introduction to Modern Geometry and Elementary Geometrical Conics.** Third Edition. Cloth, 3s. 6d.

**Blaikie (James).—The Elements of Dynamics (Mechanics),** with numerous examples and Examination Questions. New and enlarged Edition, Thirty-ninth Thousand, with additional Examination papers. Cloth, 3s. 6d.

**Edgar (John).—History of Scottish Education from early Times to the Period of the Reformation.** 8vo, cloth, 5s. net.

**Dobbin (Leonard) and Marshall (Hugh).—Lectures on Chemistry in the University of Edinburgh.—SALTS AND THEIR REACTIONS: A Class Book of Practical Chemistry.** With Preface by Prof. CROMBIE BROWN. 3s. 6d. net.

**Masson (Rosaline).—Use and Abuse of English, a Handbook of Composition.** With Preface by Emeritus Professor MASSON. New Edition. Crown 8vo, 1s.

**Graham (William), F.S.A.Scot.—The One Pound Note in the History of Banking in Great Britain.** Second Edition. 9s. net.

**Macgregor (Prof. J. G.).—Physical Laws and Observations for Junior Students.** Cloth, 2s. 6d. net.

**Sillar (W. C.), M.D., B.Sc.—Practical Materia Medica and Prescription Writing.** Second Edition. Cloth, 3s. 6d. net.

**Dobbin (Leonard), Ph.D.—Arithmetical Exercises in Chemistry.** Fourth Edition. Cloth, 1s. net.

**Cumming (A. C.), D.Sc.—Practical Chemistry for Medical Students.** With Preface by Prof. JAMES WALKER. 3s. 6d. net.

---

EDINBURGH: JAMES THIN, UNIVERSITY BOOKSELLER AND PUBLISHER.  
LONDON: SIMPKIN, MARSHALL & CO.

# FROM CONSTABLE'S LIST

## OUTLINES OF INDUSTRIAL CHEMISTRY.

A Series of Text-Books introductory to the Chemistry of the National Industries. Edited by GUY D. BENGOUGH, M.A., D.Sc.

## AN INTRODUCTION TO THE STUDY OF PHYSICAL METALLURGY.

By WALTER ROSENHAIN, B.A., D.Sc., F.R.S., Superintendent, Metallurgy Department of the National Physical Laboratory. Plates and illustrations in the text. Demy Svo. 10s. 6d. net.

## MECHANICAL TECHNOLOGY.

By G. F. CHARNOCK, M.Inst.C.E., M.Inst.Mech.E. Demy Svo. 650 pages. Illustrated. 7s. 6d. net.

## SURVEYING AND FIELD WORK.

By JAMES WILLIAMSON, A.M.Inst.C.E. A New Volume in "The Glasgow Text-Books of Civil Engineering." Demy Svo. 360 pages. Illustrated. 7s. 6d. net.

**The Theory and Use of Indicators.** By E. B. R. Prideaux. Demy Svo. Illustrated. 12s. 6d. net.

**Text-Book of Motor-Car Engineering.** Vol. II. **Design.** By A. Graham Clark, M.I.A.E. Demy Svo. Illustrated. 8s. 6d. net.

**The Internal Combustion Engine: A Text-book on Gas, Oil and Petrol Engines for Students and Engineers.** 2nd edition. Revised and enlarged. H. E. Wimperis, M.A., A.M.Inst.C.E., etc. Illustrated. Demy Svo. 6s. 6d. net.

**The Diesel Engine for Land and Marine Purposes.** New Edition, revised and brought up to date. By A. P. Chalkley, B.Sc., A.M.Inst.C.E., A.I.E.E. With an Introduction by the late Dr. Diesel. Illustrated. 8s. 6d. net.

**A Manual of the High-Speed Steam Engine.** By H. Keay Pratt, A.M.I.Mech.E., author of "Boiler Draught." Illustrated. 5s. net.

**Hydraulics and its Applications: A Text-Book for Engineers and Students.** By A. H. Gibson, D.Sc., M.Inst.C.E. 2nd edition, revised and enlarged. Demy Svo. 15s. net.

**Continuous Current Engineering.** By Alfred Hay, D.Sc., M.I.E.E. Second edition, revised. Demy Svo. 6s. 6d. net.

**The Theory of Proportion.** By M. J. M. Hill, M.A., LL.D., Sc.D., F.R.S. Demy Svo. 108+xii pages. 15 figures. 5s. net.

**The Calculus and its Applications.** With over 400 examples, many of them fully worked out. By Robert Gibson Blaine, M.E., A.M.Inst.C.E. Cr. Svo. 4s. 6d. net.

**Chemical Theory and Calculations: An Elementary Text-Book.** By Forsyth J. Wilson, D.Sc. (Edin.), Ph.D. (Leipzig), and Isidor M. Heilbron, Ph.D. (Leipzig), F.I.C., A.R.T.C. 2s. 6d. net.

**Text-Book of Elementary Chemistry.** By F. Mollwo Perkin, Ph.D., F.I.C., F.C.S., and E. M. Jagers. Small Svo. With 17 illustrations. 3s. net.

**Practical Methods of Inorganic Chemistry.** By F. Mollwo Perkin, Ph.D., F.I.C., F.C.S. Crown Svo. Illustrated. 2s. 6d. net.

**A Text-Book of Physics.** By H. E. Hurst, B.A., B.Sc., and R. T. Lattey, M.A. Demy Svo. Illustrations and Diagrams. 8s. 6d. net. Also issued in three volumes, at the request of many teachers. Each part is sold separately. Part I.—Dynamics and Heat, 3s. 6d. net. Part II.—Light and Sound, 3s. 6d. net. Part III.—Magnetism and Electricity. 4s. net.

**A Text-Book of Thermodynamics** (with special reference to Chemistry). By J. R. Partington, M.Sc. 544+x pages. 91 Diagrams. Demy Svo. 14s. net.

**Outlines of Evolutionary Biology.** By Arthur Dendy, D.Sc., F.R.S., Professor of Zoology in the University of London (King's College). Second edition, enlarged, and with a glossary. Illustrated. 12s. 6d. net.

**Post-Mortems and Morbid Anatomy.** By Theodore Shennan, M.D., F.R.C.S.E. Royal Svo. Illustrated from Photographs and Colour Plates. xvi+496 pages. 18s. net.

**10 ORANGE STREET, LONDON, W.C.2**

**FIVE-FIGURE MATHEMATICAL TABLES** By E. CHAPPELL, B.Sc.,  
Assoc.M.Inst.C.E.  
7s. 6d. net (per post, 8s.).

**PHYSICS: AN ELEMENTARY TEXT-BOOK FOR UNIVERSITY CLASSES.** By  
C. G. KNOTT, D.Sc. (Edin.), F.R.S.E. 678 pages. 7s. 6d. net.

*Third Edition. Contains a new chapter on the Electron Theory and Radio-activity.*

**ORGANIC CHEMISTRY** By Profs. W. H. PERKIN and F. STANLEY KIPPING.  
Entirely New Edition. 700 pages. 7s. 6d. net.

**INORGANIC CHEMISTRY** By Profs. F. STANLEY KIPPING and W. H.  
PERKIN. 768 pages. 7s. 6d. net.

**W. & R. CHAMBERS, LTD., EDINBURGH AND LONDON**

## ST. GEORGE'S TRAINING COLLEGE FOR WOMEN TEACHERS IN INTERMEDIATE AND SECONDARY SCHOOLS, EDINBURGH.

(DEPARTMENT OF ST. GEORGE'S SCHOOL FOR GIRLS INCORPORATED.)

PRINCIPAL: MISS ELIZABETH STEVENSON, B.A.

Classical Tripos, Girton College, Cambridge.

This College, which is recognised by the Scotch Education Department and by the Cambridge Teachers' Training Syndicate, provides a professional training for well educated women who intend to teach, and prepares students for the certificates of the Scotch Education Department and the Cambridge Teachers' Training Syndicate.

The College also prepares students for the Higher Certificate of the National Froebel Union. Certain Bursaries are awarded to Graduates, and there is a Loan Fund.

Prospectus and further particulars from the PRINCIPAL, Garsecube Terrace, Edinburgh.

## By T. K. MONRO, M.A., M.D., F.R.F.P.S.G.,

Regius Professor of Practice of Medicine in the University of Glasgow.

**Raynaud's Disease** (local syncope, local asphyxia, symmetrical gangrene): its history, causes, symptoms, morbid relations, pathology and treatment. *Crown 8vo.*

JAMES MACLEHOSE & SONS, GLASGOW.

**A History of the Chronic Degenerative Diseases of the Central Nervous System.** *Royal 8vo.*

**Medical Life and Work:** an address to Students, introductory to a course of lectures on Practice of Medicine.

ALEX. MACDOUGALL, 70 MITCHELL ST., GLASGOW.

**A Manual of Medicine,** fourth edition. *Demy 8vo.*

BAILLIÈRE, TINDALL & COX, LONDON.

# WILLIAM J. DOBBIE,

— Funeral Undertaker —

Carriage and Motor Hirer.

HEAD OFFICE:

Telephone No. 1847 Bell.

1 GLEBE STREET, TOWNHEAD

GLASGOW.

BRANCHES—

710 NEW CITY ROAD. 405 SPRINGBURN ROAD. POSSIL ROAD.

40 BUTTERBIGGINS ROAD. 40 MAIN STREET, MARYHILL.

Superior Appointments.

Moderate Rates.

Embalming.

Cremations.

## THE GLASGOW SCHOOL OF ART

*Central Art Institution for Glasgow and the  
West of Scotland.*

DIRECTOR: - JOHN HENDERSON.

*The 77th Session (1918-19) begins on September 24th, 1918.*

**Day School.**—Upper and Lower Schools: Drawing and Painting, Modelling and Sculpture, Design and Decorative Art, Architecture.

**Life Courses.**—Drawing and Painting: Life Composition, Mural and Decorative Painting. All Students in the Lower School draw from the Life.

Design and Decorative Art Studios fully equipped for practical work.

Co-operation with the Royal Technical College for Textile Art Workers.

**School of Architecture.**—Joint Course in Architecture, arranged in conjunction with the Royal Technical College.

**Diplomas** granted in each Section are accepted by the Scotch Education Department as proofs of Attainment for Art Teachers. Recognised Centre for the Training of Art Masters and Mistresses, and for further instruction to School Teachers under Art. 55.

Joint Course with the Glasgow and West of Scotland College of Domestic Science in Art Needlecraft and Embroidery.

**Evening School.**—Classes organised similar to those in Day School. All subjects taken. Special instruction to Designers, Craftsmen, and Artizans. Fees nominal.

**Calendar Post Free on application to the Secretary.**

---

## Royal Faculty of Physicians and Surgeons of Glasgow.

---

### EXAMINATIONS FOR THE FELLOWSHIP

AND ALSO

### FOR THE SURGICAL LICENCE OF THE FACULTY

ARE HELD AT STATED QUARTERLY PERIODS IN JANUARY,  
APRIL, JULY, AND OCTOBER.

Examinations for the Triple Qualification and for the Conjoint Diploma in Public Health are held in Glasgow and Edinburgh at stated Periods.

Copies of the Regulations relating to the Licence, the Fellowship, the Triple Qualification, the Conjoint Diploma in Public Health, and the Licence in Dental Surgery may be had on application.

WALTER HURST,  
*Acting Secretary.*

FACULTY HALL,  
242 ST. VINCENT STREET,  
GLASGOW, *June, 1918.*

---

"The College that gets Positions."

## SHORTHAND, TYPEWRITING, BOOKKEEPING, OFFICE ROUTINE

---

Teaching these Subjects as Employers require  
they should be practised is the reason why

**SPROLL'S STUDENTS  
GET THE BEST POSTS**

WRITE FOR PROSPECTUS

# SPROLL'S COLLEGE

354 DUKE STREET, GLASGOW

**Orford College**  
**University Tutorial Institute,**  
 206 SAUCHIEHALL STREET.

□

- A.** 1. The Preliminary Examinations of the Scottish Universities in Arts, Science, and Medicine.  
 2. Army and Navy Entrance Examinations.  
 3. The London Matriculation, Oxford Responsions, Cambridge Previous and other University Entrance Examinations.  
 4. The Medical, Dental, Pharmaceutical and Veterinary Examinations, as conducted by the Educational Institute of Scotland and other Examining Bodies.  
 5. The Entrance Examinations of the Royal Technical College, Glasgow.  
 6. The Law Agents' Examinations—First and Second Examinations in General Knowledge,
- B.** University Degree Examinations.

## ALL UNIVERSITY PRELIMINARIES;

Also M.A., B.Sc., and FIRST PROFESSIONAL

*CLASSES conducted at 141 BATH STREET, by*

**MR. JAMES FINLAYSON, M.A.**

(Honours in Mathematics and Natural Philosophy.)

**CLASSES RESUME ON 1st AUGUST.**

## ROBERT MACLEHOSE & CO., LTD.

SPECIAL ATTENTION GIVEN TO MATHEMATICAL AND SCIENTIFIC WORKS



CITY OFFICE:  
 61 ST. VINCENT STREET

TELEPHONES:  
 2940 (WESTERN), 3 LINES

ALL CLASSES OF COMMERCIAL AND ILLUSTRATED CATALOGUE PRINTING  
 UNIVERSITY PRESS, ANNIESLAND, GLASGOW

"An Admirable Institution."—*University Professor.*

"Marvel in Private Enterprise."—*Director of Studies.*

"Without Skerry's Assistance and Guidance many would never have found their true level in life." *Proclaimed a Great Educationist.*

## WHAT SKERRY'S COLLEGE HAS DONE AND IS DOING!

**The Place taken by Skerry's College** in the Educational World, particularly with regard to Specialised Vocational Training, is recognised to be Pre-eminent. Without the Expert Help which the College gives, and always has given, in every Department, many of its past students would not have entered the Civil Service or the Universities, or have passed the examinations that gave them entry to one or other of the Professions, or have attained the degree of proficiency demanded in Office Life. This Claim is Amply Verified by the **60,000 students** who, during the past 40 years, have had to thank Skerry's College for its Effectual Assistance and Guidance.

**The Resources and Efficiency** of the College are always Growing, its Methods always Improving. Old in Prestige, it is freshly modern in its Methods and Ideals; and To-day its full power to win success for its students is being vigorously exercised. Its Success has been realised in every sphere. In the Business World alone, students of the Office Training Department are daily receiving first-class appointments. It is abundantly evident that in its Teaching, in its Influence, in its Activity for the students' benefit, and in its Successes Skerry's College stands Unrivalled.

**Day, Evening, and Postal Enrolments for  
the Current Session are now Proceeding**

**ANY PROSPECTUS is free to all on Application**

**HEAD OFFICES AND CLASS-ROOMS—**

**13 BATH STREET, GLASGOW**

P  
univ. Cal  
g.  
L

THE  
GLASGOW UNIVERSITY  
CALENDAR

FOR THE YEAR

1918-19



147/97  
27/9/18

GLASGOW  
JAMES MACLEHOSE AND SONS, 61 ST. VINCENT ST.  
Publishers and Booksellers to the University  
1918



## IMPORTANT

Prospective students and others are requested to note that the whole class arrangements embodied in the list of classes which begins at page 66 are of a provisional nature, and subject under present conditions to such modification or excision as may be found necessary at the opening of the session and during its course. So far as possible, at the date of printing, an asterisk has been placed against those classes in the list which may have to be suspended.

Owing to causes due to the War, certain sections are omitted this year from the Calendar; these are indicated near the end of the Table of Contents.

# CONTENTS.

	PAGE
CALENDAR, . . . . .	9
UNIVERSITY OFFICERS, . . . . .	20
O. T. CORPS, . . . . .	33
I.—THE UNIVERSITY, . . . . .	35
University Buildings, . . . . .	37
Government of the University, . . . . .	39
Chancellor, . . . . .	41
Rector, . . . . .	41
Dean of Faculties, . . . . .	42
Principal, . . . . .	43
University Court, . . . . .	43
Senatus Academicus, . . . . .	47
Faculties, . . . . .	48
Lecturers, . . . . .	49
Boards of Studies, . . . . .	49
University Assistants or Demonstrators, . . . . .	50
Examiners for Degrees, . . . . .	50
General Council, . . . . .	51
Students' Representative Council, . . . . .	53
Students, . . . . .	55
University Chapel, . . . . .	57
Gymnasium, . . . . .	57
External Examinations and Appointments, . . . . .	59
II.—TABLE OF UNIVERSITY FEES, . . . . .	63
III.—WOMEN'S DEPARTMENT, . . . . .	65
IV.—SEPARATE FACULTIES AND CLASSES, . . . . .	66
I.—FACULTY OF ARTS, . . . . .	86
A. Language and Literature, . . . . .	86
Humanity, . . . . .	86
Roman History and Antiquities, . . . . .	88
Greek, . . . . .	88
Hellenistic Greek, . . . . .	90
Non-Qualifying Greek, . . . . .	91
Greek History and Archaeology, . . . . .	91
English Language and Literature, . . . . .	92
French, . . . . .	95
German, . . . . .	97
Italian, . . . . .	98
Hebrew, . . . . .	100

	PAGE
Arabic, . . . . .	100
Celtic, . . . . .	100
Russian, . . . . .	102
B. Mental Philosophy, . . . . .	103
Logic and Rhetoric, . . . . .	103
Experimental Psychology, . . . . .	104
Moral Philosophy, . . . . .	105
Political Philosophy, . . . . .	106
Political Economy, . . . . .	106
Social Economics, . . . . .	107
Economic History, . . . . .	108
Education, . . . . .	108
C. Science, . . . . .	109
Mathematics, . . . . .	109
Natural Philosophy, . . . . .	111
Physics, . . . . .	115
Astronomy, . . . . .	116
Chemistry, . . . . .	116
Zoology, . . . . .	116
Botany, . . . . .	116
Geology, . . . . .	116
Geography, . . . . .	116
D. History and Law, . . . . .	117
History, . . . . .	117
Constitutional Law and History, . . . . .	119
Roman Law, . . . . .	119
Scottish History and Literature, . . . . .	119
2.—FACULTY OF SCIENCE, . . . . .	121
Mathematics, . . . . .	121
Natural Philosophy, . . . . .	121
Astronomy, . . . . .	121
Chemistry, . . . . .	123
Organic Chemistry, . . . . .	123
Metallurgical Chemistry, . . . . .	124
Physical Chemistry, . . . . .	125
Geology, . . . . .	127
Zoology, . . . . .	128
Botany, . . . . .	128
Anatomy, . . . . .	128
Anatomy, with special reference to Embryology, . . . . .	128

	PAGE
Physiology, . . . . .	128
Geography, . . . . .	128
Civil Engineering and Mechanics, . . . . .	128
Electrical Engineering, . . . . .	131
Mining, . . . . .	134
Naval Architecture, including Marine Engineering, . . . . .	135
Public Health, . . . . .	136
3.—FACULTY OF MEDICINE, . . . . .	136
Order of Study, . . . . .	136
Chemistry, . . . . .	139
Physics, . . . . .	141
Botany, . . . . .	141
Zoology, . . . . .	143
Anatomy, . . . . .	145
Anatomy, with special reference to Embryology, . . . . .	146
Physiology, . . . . .	147
Materia Medica, . . . . .	150
Pathology, . . . . .	151
Clinical Pathology, . . . . .	152
Pathology (St. Mungo—Notman—Chair), . . . . .	153
Forensic Medicine, . . . . .	154
Public Health, . . . . .	155
Surgery, . . . . .	157
Surgery (St. Mungo Chair), . . . . .	158
Practice of Medicine, . . . . .	160
Medicine (Muirhead Chair), . . . . .	161
Midwifery, . . . . .	163
Obstetrics and Gynaecology (Muirhead Chair), . . . . .	163
Insanity (Two Lectureships), . . . . .	164
Ophthalmology, . . . . .	166
Fevers, . . . . .	166
Diseases of the Ear (Two Lectureships), . . . . .	166
Diseases of the Throat and Nose (Two Lectureships), . . . . .	168
Dermatology (Two Lectureships), . . . . .	170
Venereal Diseases, . . . . .	170
Electrical Diagnosis and Therapeutics (Two Lectureships), . . . . .	171
4.—FACULTY OF LAW, . . . . .	171
Law, . . . . .	175
Conveyancing, . . . . .	176
Forensic Medicine, . . . . .	177

	PAGE
Political Economy, . . . . .	177
Civil Law, . . . . .	177
Constitutional Law and History, . . . . .	178
General or Comparative Jurisprudence, . . . . .	179
Public International Law, . . . . .	180
International Private Law, . . . . .	181
Mercantile Law, . . . . .	182
Evidence and Procedure, . . . . .	182
5.—FACULTY OF THEOLOGY, . . . . .	183
Order of Study, . . . . .	183
Divinity, . . . . .	188
Hebrew and Semitic Languages, . . . . .	190
Arabic, . . . . .	192
Ecclesiastical History, . . . . .	193
Divinity and Biblical Criticism, . . . . .	196
V.—ENDOWED DEMONSTRATORSHIPS, Etc., . . . . .	197
Arnott and Thomson Demonstratorship in Experimental Physics, . . . . .	197
Muirhead Demonstratorship of Physiology, . . . . .	197
Grieve Lectureship on Physiological Chemistry, . . . . .	198
Pollok Lectureship in Materia Medica, . . . . .	199
Weir Assistantship in Materia Medica, . . . . .	199
William Baxter Demonstratorship in Geology, . . . . .	200
Waltonian Medical Lectureship, . . . . .	201
Gifford Lectureship on Natural Theology, . . . . .	202
Alexander Robertson Lectureship, . . . . .	203
Graham Young Lectureship on Metallurgical Chemistry, . . . . .	205
The Hastie Lectureship, . . . . .	205
VI.—SPECIAL STUDY AND RESEARCH, . . . . .	206
Special Teaching and Study by Scholars and Fellows, . . . . .	208
VII.—CARNEGIE TRUST, . . . . .	209
VIII.—LIBRARIES, MUSEUM, BOTANIC GARDEN, . . . . .	225
University Library, . . . . .	225
Catalogues, . . . . .	230
Reading Room, . . . . .	231
Divinity Hall Library, . . . . .	232
Hunterian Museum, . . . . .	232
Donations, . . . . .	233
Botanic Garden, . . . . .	234
Facilities for Study of Marine Biology, . . . . .	234

	PAGE
IX.—GRADUATION IN THE SEVERAL FACULTIES,	235
Examiners, . . . . .	235
Regulations for Granting Degrees, . . . . .	238
1.—GRADUATION IN ARTS, . . . . .	238
Preliminary Examinations, . . . . .	238
Degree of Master of Arts, . . . . .	249
Subjects of Examination for M.A., . . . . .	258
Tables of Examinations for M.A., . . . . .	280
2.—GRADUATION IN SCIENCE, . . . . .	287
Degrees in Pure Science, . . . . .	287
Degrees in Science in Engineering, . . . . .	297
Table of Examinations for B.Sc. in Pure Science, . . . . .	298
Certificates of Proficiency in Engineering Science, . . . . .	307
Table of Examinations for B.Sc. in Engineering, . . . . .	308
Degree in Science in Applied Chemistry, . . . . .	310
Table of Examinations for B.Sc. in Applied Chemistry, . . . . .	319
Degree in Science in Agriculture, . . . . .	323
Table of Examinations for B.Sc. in Agriculture, . . . . .	327
Degrees in Science in Public Health, . . . . .	328
Table of Examinations for B.Sc. in Public Health, . . . . .	332
Degree in Science in Pharmacy, . . . . .	333
3.—DEGREE OF BACHELOR OF EDUCATION, . . . . .	336
4.—HIGHER DEGREES IN ARTS AND SCIENCE, . . . . .	341
5.—GRADUATION IN MEDICINE AND SURGERY, . . . . .	345
New Medical Ordinance (University Court Ordinance No. XXXI., Glasgow, No. 9), . . . . .	345
Table of Examinations for Degrees in Medicine, . . . . .	362
6.—GRADUATION IN LAW, . . . . .	371
New Law Ordinance (U.C.Ord. No. xxxvii), . . . . .	375
Table of Examinations for Degrees in Law, . . . . .	380
7.—GRADUATION IN DIVINITY, . . . . .	381
Bachelor of Divinity, . . . . .	381
Table of Examinations for B.D., . . . . .	384
8.—HONORARY DEGREES, . . . . .	387
ACADEMIC DRESS, . . . . .	388
X.—BURSARIES, SCHOLARSHIPS, ETC., PRIZES, . . . . .	391
1.—BURSARIES—	
A. Bursaries arranged according to Faculties, . . . . .	395
B. Bursaries alphabetically arranged, <sup>1</sup> . . . . .	398

<sup>1</sup> Omitted from this volume. The reference is to *Univ. Cal.* 1916-17.

	PAGE
2.—EXHIBITIONS, FELLOWSHIPS, AND SCHOLARSHIPS, <sup>1</sup> . . . . .	399
3.—PRIZES, <sup>1</sup> . . . . .	400
4.—LIST OF BURSARIES, ETC., OPEN TO COMPETITION DURING SESSION 1918-19, . . . . .	401
5.—PATRONAGE BURSARIES, 1918-19, . . . . .	407
6.—BURSARIES COMPETITION, JUNE, 1918, . . . . .	407
7.—UNIVERSITY PRIZE ESSAYS FOR SESSION 1918-19, . . . . .	415
XI.—HONOURS LIST, 1827-1916, <sup>2</sup> . . . . .	537
XII.—DEGREE AND PRIZE LIST, SESSION 1915-1916, <sup>2</sup> . . . . .	562
XIII.—VACATION EXERCISES, ETC., 1918-19, . . . . .	416
XIV.—GLASGOW PROVINCIAL COMMITTEE FOR THE TRAINING OF TEACHERS, <sup>2</sup> . . . . .	601
XV.—EXTRA-ACADEMICAL TEACHING, <sup>2</sup> . . . . .	604
XVI.—UNIVERSITY SOCIETIES, <sup>2</sup> . . . . .	614
XVII.—RECENT ORDINANCE (R. T. COLLEGE), . . . . .	417
XVIII.—INCLUSIVE FEES, . . . . .	423
XIX.—LIST OF MEMBERS OF THE GENERAL COUNCIL, . . . . .	430
GENERAL INDEX, . . . . .	431

## EXAMINATION PAPERS.

The Examination Papers for 1917-18 may be obtained at the prices undernoted from the Registrar, Glasgow University, or from Messrs. James MacLehose and Sons, 61 St. Vincent Street, Glasgow.

- I. Preliminary Examination Papers in Arts, Science, and Medicine. (6d. ; per post, 8d.)
- II. Bursary Examination Papers. (6d. ; per post, 8d.)
- III. Examination Papers for Degree of M.A. (6d. ; per post, 1s.)
- IV. Examination Papers for Degree of B.Sc. (6d. ; per post, 9d.)
- V. Professional Examinations for Degrees in Medicine and Surgery. (6d. ; per post, 7d.)
- VI. Examination Papers for Degrees of LL.B. and B.L. (6d. ; per post, 7d.)
- VII. Examination Papers for Degree of B.D. (6d. ; per post, 7d.)

<sup>1</sup> See also *Univ. Cal.* 1916-17.

<sup>2</sup> The reference is to *Univ. Cal.* 1916-17.

## AUGUST 1918.

1	Th	
2	F	
3	S	
4	S	
5	M	
6	Tu	
7	W	
8	Th	
9	F	
10	S	
11	S	
12	M	
13	Tu	
14	W	
15	Th	
16	F	
17	S	
18	S	
19	M	{ Names of Candidates for Preliminary Examinations in Arts, Science, and Medicine, for Degree Examinations in Arts, Science, Medicine, and Law, and for Scholarships, etc., to be given in to the Registrar. ( <i>First Entry Day.</i> )
20	Tu	
21	W	
22	Th	
23	F	{ Names of Candidates for Preliminary Examinations in Arts, Science, and Medicine to be given in to the Registrar. ( <i>Last Entry Day.</i> ) Names of Candidates for Final Professional Examination in Medicine to be given in to the Registrar. ( <i>Last Entry Day.</i> )
24	S	
25	S	
26	M	
27	Tu	{ Names of Candidates for Examinations for Degrees in Arts and Law, and for Scholarships, etc., to be given in to the Registrar. ( <i>Last Entry Day.</i> )
28	W	
29	Th	

## AUGUST 1918.

30	F	{ Names of Candidates for First, Second, and Third Professional Examinations in Medicine, for B.Sc. Examinations in Science, and for Certificate in Engineering Science, to be given in to the Registrar. ( <i>Last Entry Day.</i> )
31	S	

## SEPTEMBER 1918.

1	S	{ Names of Candidates for Ferguson Scholarships, and for A. and B. Stewart Bursaries, to be given in before this day. Names of Candidates to be given in to the Registrar between 30th August and 2nd September for the M.D. and Ch.M. Clinical Examinations. ( <i>Last Entry Day.</i> )
2	M	
3	Tu	
4	W	
5	Th	
6	F	
7	S	
8	S	Examination for Macdonald Bursary (if vacant).  Preliminary Examinations in Arts, Science, and Medicine begin.
9	M	
10	Tu	
11	W	
12	Th	
13	F	
14	S	
15	S	
16	M	
17	Tu	
18	W	
19	Th	Degree Examinations.
20	F	{ Preliminary Examinations end. Degree Examinations.
21	S	{ Degree Examinations. Clinical Examinations for Degrees of M.D. and Ch.M.
22	S	{ Names of Candidates for Degree of B.D. and for Bursaries, etc., in Theology to be given in to the Registrar. ( <i>First Entry Day.</i> ) Clinical Examinations for Degrees of M.D. and Ch.M. Degree Examinations.
23	M	
24	Tu	

## SEPTEMBER 1918.

25	W	Degree Examinations.
26	Th	{ Degree Examinations. Meeting of Classical and Modern Languages Committees of Joint Board.
27	F	{ Meeting of Joint Board. Degree Examinations.
28	S	{ Applications for admission as Research Students to be lodged with the Clerk of Senate. Meeting of Joint Board. Degree Examinations.
29	S	
30	M	{ Names of Candidates for Degree of B.D. and for Bursaries, etc., in Theology to be given in to the Registrar. ( <i>Last Entry Day.</i> ) Degree Examinations.

## OCTOBER 1918.

1	Tu	Degree Examinations.
2	W	Degree Examinations.
3	Th	{ Meeting of University Court. Appointment of Committees and of Representatives at Charitable and other Boards. Degree Examinations. Results of Preliminary Examinations issued.
4	F	Degree Examinations.
5	S	Degree Examinations.
6	S	
7	M	{ Graduation in Medicine. Degree Examinations.
8	Tu	Degree Examinations.
9	W	Degree Examinations.
10	Th	{ Degree Examinations. Meeting of Senate. Election of Senate Members of Library Committee, Museums Committee, and Observatory and Laboratories Committee. Appointment of Committees on Honorary Degrees, on Prize Essays, and on External Examinations and Appointments.
11	F	{ Examinations for Bursaries in Theology. Matriculation and Enrolment begin.
12	S	Examinations for Bursaries in Theology.
13	S	
14	M	{ Classes open in Arts, Science, Medicine, and Theology. Meeting of Standing Committee on University Union.
15	Tu	Law Classes open.
16	W	

## OCTOBER 1918.

17	Th	
18	F	{ Notice of Business to be sent to the several Conveners by Members of the Boards of Studies in Arts, Science or Medicine.
19	S	
20	S	
21	M	
22	Tu	
23	W	
24	Th	Close of Matriculation.
25	F	
26	S	
27	S	
28	M	Last day for giving in Prize Essays.
29	Tu	Close of Enrolment in Classes.
30	W	(Last Wednesday.)—Meeting of General Council.
31	Th	{ Meeting of Senate. Snell Examiners appointed. Representatives at Charitable and other Boards elected.

## NOVEMBER 1918.

1	F	
2	S	
3	S	
4	M	
5	Tu	
6	W	
7	Th	Meeting of University Court.
8	F	
9	S	Graduation.
10	S	
11	M	
12	Tu	
13	W	
14	Th	{ Meeting of Senate. First Statutory Meeting, S.R.C.
15	F	
16	S	Graduation.
17	S	
18	M	
19	Tu	

## NOVEMBER 1918.

20	W
21	Th
22	F
23	S
24	S
25	M
26	Tu
27	W
28	Th
29	F
30	S

## DECEMBER 1918.

1	S
2	M
3	Tu
4	W
5	Th
6	F
7	S
8	S
9	M
10	Tu
11	W
12	Th
13	F
14	S
15	S
16	M
17	Tu
18	W
19	Th
20	F
21	S
22	S
23	M
24	Tu
25	W
26	Th
27	F
28	S
29	S
30	M
31	Tu

Meeting of Senate. Widows' Fund Report made out.

{ Second Statutory Meeting, S.R.C.  
Meeting of University Court. Appointment of Director of Samaritan  
Hospital and Director of Eye Infirmary.

Classes close in Arts, Science, Medicine, and Theology.  
Law Classes close.

Commencement of Christmas Vacation.

## JANUARY 1919.

1	W	
2	Th	
3	F	
4	S	
5	S	
6	M	
7	Tu	{ Classes re-open. Enrolment in Classes which begin after Christmas Vacation.
8	W	
9	Th	Meeting of University Court.
10	F	{ Notice of Business to be sent to the several Conveners by Members of the Boards of Studies in Arts, Science or Medicine.
11	S	{ Applications for Higher Degrees in Arts and Science (D.Litt., D.Phil., and D.Sc.) to be sent in to Clerk of Senate.
12	S	
13	M	
14	Tu	
15	W	Meeting of Prize Essays Committee.
16	Th	{ Meeting of Senate. Intimation from the several Faculties of the Election of Deans. Appointment of Principal and Deans Committee. Appointment of Boards of Studies. Vacancies in Bursaries ascertained.
17	F	Close of Enrolment in Classes which begin after Christmas Vacation.
18	S	
19	S	
20	M	
21	Tu	
22	W	
23	Th	Third Statutory Meeting, S.R.C.
24	F	
25	S	
26	S	
27	M	
28	Tu	
29	W	
30	Th	
31	F	

## FEBRUARY 1919.

1	S	Theses for M.D. (Old Regulations only) to be given in to the Registrar.
2	S	
3	M	Holiday (Monday after last Friday of January).
4	Tu	Holiday (for Candlemas).
5	W	
6	Th	{ Meeting of Senate. Report by Faculty of Arts on Logan Medal and Herkless Prize.
7	F	
8	S	
9	S	{ Names of Candidates for Preliminary Examinations in Arts, Science, and Medicine, and for Final Professional Examination in Medicine to be given in to the Registrar. ( <i>First Entry Day.</i> ) Names of Candidates to be given in to the Registrar for the M.D. and Ch.M. Clinical Examinations. ( <i>First Entry Day.</i> )
10	M	
11	Tu	
12	W	
13	Th	Meeting of University Court.
14	F	{ Names of Candidates for Final Professional Examination in Medicine to be given in to the Registrar. ( <i>Last Entry Day.</i> ) Names of Candidates to be given in to the Registrar for the M.D. and Ch.M. Clinical Examinations. ( <i>Last Entry Day.</i> )
15	S	
16	S	
17	M	
18	Tu	
19	W	
20	Th	
21	F	{ Names of Candidates for Preliminary Examinations in Arts, Science, and Medicine, to be given in to the Registrar. ( <i>Last Entry Day.</i> )
22	S	
23	S	
24	M	{ Names of Candidates for Degree Examinations in Arts, Science, Medicine, Law, and Theology, and for Scholarships, etc., to be given in to the Registrar. ( <i>First Entry Day.</i> )
25	Tu	
26	W	
27	Th	{ Meeting of Senate. Reports of Committees on Honorary Degrees. Resolution to elect Commissioner to General Assembly. Schemes of Courses in Arts, Science, and Medicine to be sent by Professors and Lecturers to Conveners of Boards of Studies.
28	F	
		{ Names of Candidates for Examinations for Degrees in Arts (two-term subjects), and Law, and for Degree of B.D., to be given in to the Registrar. ( <i>Last Entry Day.</i> )

## MARCH 1919.

1	S	
2	S	
3	M	{ Holiday (Monday after last Friday of February). Names of Candidates for First, Second, and Third Professional Examinations in Medicine, for B.Sc. Examinations in Science, and for Certificate in Engineering Science, to be given in to the Registrar. (Last Entry Day.)
4	Tu	
5	W	
6	Th	
7	F	
8	S	
9	S	
10	M	
11	Tu	
12	W	
13	Th	{ Meeting of University Court. Fourth Statutory Meeting, S.R.C.
14	F	Preliminary Examinations in Arts, Science, and Medicine begin.
15	S	
16	S	
17	M	
18	Tu	
19	W	Meeting of Standing Committee on University Union.
20	Th	{ Classes Close. Meeting of Senate. Election of Commissioner to General Assembly. Nomination to 1851 Exhibition Research Scholarship. Degree Examinations.
21	F	{ Preliminary Examinations end. Degree Examinations.
22	S	{ Degree Examinations. Clinical Examinations for Degrees of M.D. and Ch.M.
23	S	{ Degree Examinations.
24	M	{ Clinical Examinations for Degrees of M.D. and Ch.M.
25	Tu	Degree Examinations.
26	W	Degree Examinations.
27	Th	{ Degree Examinations. Returns from Teachers of Elocution.
28	F	Degree Examinations.
29	S	Degree Examinations.
30	S	
31	M	Degree Examinations.

## APRIL 1919.

1	Tu	{ Degree Examinations. Meeting of Classical and Modern Languages Committees of Joint Board.
2	W	Meeting of Joint Board.
3	Th	Meeting of Joint Board.
4	F	
5	S	Last day for returning Books to Library.
6	S	
7	M	
8	Tu	
9	W	Results of Preliminary Examinations issued.
10	Th	
11	F	
12	S	
13	S	
14	M	
15	Tu	
16	W	
17	Th	Library re-opened.
18	F	
19	S	
20	S	
21	M	
22	Tu	{ Graduation. Distribution of University Prizes. Meeting of Senate. Election of Clerk of Senate. Election of Lay Trustees of Widows' Fund.
23	W	{ Summer Matriculation and Enrolment begin. Classes open in Science, Medicine, and Law. Arts Classes re-open.
24	Th	Meeting of University Court.
25	F	{ Theses for M.D. to be given in to the Registrar. ( <i>First Entry Day.</i> ) Notice of Business to be sent to the several Conveners by Members of the Boards of Studies in Arts Science or Medicine.
26	S	
27	S	
28	M	
29	Tu	
30	W	(Last Wednesday).—Meeting of General Council.

## MAY 1919.

1	Th	{ Names of Competitors for Bursaries to be given in to the Registrar. ( <i>First Entry Day.</i> )
2	F	{ Theses for M.D. to be given in to the Registrar. <sup>1</sup> ( <i>Last Entry Day.</i> )
3	S	{ Close of Matriculation and Enrolment in Classes. Meeting of Senate.
4	S	
5	M	{ Names of Candidates for Degree Examinations to be given in to the Registrar. ( <i>First Entry Day.</i> )
6	Tu	
7	W	
8	Th	Meeting of University Court.
9	F	{ Names of Candidates for Degree Examinations to be given in to the Registrar. ( <i>Last Entry Day.</i> )
10	S	{ Last day for Professors sending in names of Assistants for 1919-20 to Secretary of University Court.
11	S	
12	M	
13	Tu	
14	W	{ Meeting of Senate.
15	Th	{ Names of Competitors for Bursaries to be given in to the Registrar. ( <i>Last Entry Day.</i> )
16	F	
17	S	
18	S	
19	M	
20	Tu	
21	W	
22	Th	
23	F	Arts Classes close.
24	S	Degree Examinations.
25	S	
26	M	{ Holiday—Monday after Penult Friday of May. { Degree Examinations.
27	Tu	Degree Examinations.
28	W	Degree Examinations.
29	Th	Degree Examinations.
30	F	Degree Examinations.
31	S	Degree Examinations.

## JUNE 1919.

1	S	
2	M	Degree Examinations.
3	Tu	Degree Examinations.
4	W	Degree Examinations.
5	Th	Degree Examinations.

<sup>1</sup> This is the last date in the year 1919 on which Theses for M.D. can be lodged.

## JUNE 1919.

6	F	Degree Examinations.
7	S	Degree Examinations.
8	S	
9	M	{ Degree Examinations. Bursary Examination begins.
10	Tu	Degree Examinations.
11	W	Degree Examinations.
12	Th	{ Degree Examinations. Meeting of University Court. Appointment of Lecturers, and of University Assistants.
13	F	
14	S	
15	S	
16	M	
17	Tu	
18	W	
19	Th	
20	F	
21	S	
22	S	
23	M	
24	Tu	
25	W	{ Meeting of Senate. Graduation in Arts. Distribution of Medals and Prizes in Arts
26	Th	
27	F	
28	S	
29	S	
30	M	

## JULY 1919.

1	Tu	
2	W	Classes in Science, Medicine, and Law close.
3	Th	Meeting of University Court.
4	F	
5	S	
6	S	
7	M	
8	Tu	
9	W	
10	Th	
11	F	
12	S	
13	S	
14	M	
15	Tu	
16	W	
17	Th	
18	F	
19	S	
20	S	
21	M	
22	Tu	
23	W	
24	Th	
25	F	
26	S	
27	S	
28	M	
29	Tu	
30	W	
31	Th	

## UNIVERSITY OFFICERS.

	Elected.	Electors.
<i>Chancellor</i> —THE EARL OF ROSEBURY AND MIDLOTHIAN, K.G., K.T., - - -	1908	General Council.
<i>Vice-Chancellor</i> —SIR DONALD MACALISTER, K.C.B., M.A., M.D., D.C.L., LL.D., D.Sc.,	1908	Chancellor.
<i>Rector</i> —M. RAYMOND POINCARÉ, President of the French Republic, - - -	1914	{ Matriculated Students.
<i>Principal</i> —SIR DONALD MACALISTER, K.C.B., M.A., M.D., D.C.L., LL.D., D.Sc., -	1907	Crown,
<i>Dean of Faculties</i> —EMERITUS PROFESSOR WILLIAM STEWART, D.D., LL.D., -	1911	Senate.
<i>Parliamentary Representative</i> —SIR HENRY CRAIK, K.C.B., LL.D., - - -	1906	General Council

## University Court.

THE RECTOR, <i>ex officio</i> .		THE PRINCIPAL, <i>ex officio</i> .	
THE LORD PROVOST OF GLASGOW, <i>ex officio</i> .		Elected.	Electors.
SIR WILLIAM LORIMER, LL.D.,	1908	Chancellor.	
J. H. NICOLL, M.B., - - -	1915	Rector.	
J. BRUCE MURRAY, - - -	1918	{ Lord Provost, Magistrates, and Town Council of Glasgow.	
DAVID MURRAY, LL.D., - - -	1903	{ General Council.	
JOHN HUTCHISON, LL.D., - - -	1905		
JOHN SMITH, D.D., - - -	1907		
G. S. MIDDLETON, M.D., LL.D.,	1918		
PROFESSOR PHILLIMORE, M.A., -	1910	{ Senate.	
PROFESSOR MILLIGAN, D.D., -	1912		
PROFESSOR GRAHAM KERR, F.R.S.,	1913		
PROFESSOR NOËL PATON, F.R.S.,	1915		

Senatus Academicus.<sup>1</sup>

PRESIDENT, - - -	THE PRINCIPAL, - - -	1907
PROFESSORS.		
	CHAIRS.	Appointed
Henry Martyn Beckwith Reid, D.D.,	<i>Divinity</i> , - - -	1903
Frederick O. Bower, Sc.D., F.R.S.,	<i>Botany</i> , - - -	1885
D.Sc. ( <i>ad eund.</i> ) Sydney, - - -		
Sir John Harvard Biles, LL.D., D.Sc.,	{ <i>Naval Architecture, including Marine Engineering,</i> }	1891
Sir William Macewen, D.Sc. (Oxon. and Dublin), F.R.S., F.R.C.S.I. (Hon.), F.R.F.P.S.G. (Hon.),		
	<i>Surgery</i> , - - -	1892

<sup>1</sup> See note at foot of next page.

PROFESSORS—Continued.	CHAIRS.	Appointed
Ludwig Becker, Ph.D., - - -	<i>Astronomy</i> , - - -	1893
Murdoch Cameron, M.D., - - -	<i>Midwifery</i> , - - -	1894
Sir Henry Jones, LL.D., Litt.D., F.B.A.,	<i>Moral Philosophy</i> , - - -	1894
Ralph Stockman, M.D., - - -	<i>Materia Medica</i> , - - -	1897
John Glaister, M.D., - - -	<i>Forensic Medicine</i> , - - -	1898
James Cooper, D.D., Litt.D., D.C.L.,	<i>Church History</i> , - - -	1898
Robert Muir, M.A., M.D., Sc.D., F.R.S.,	<i>Pathology</i> , - - -	1899
John S. Phillimore, M.A., LL.D., - - -	<i>Humanity</i> , - - -	1906 <sup>1</sup>
Andrew Gray, LL.D., F.R.S., - - -	<i>Natural Philosophy</i> , - - -	1899
Dudley J. Medley, M.A., - - -	<i>History</i> , - - -	1899
Robert Latta, M.A., D.Phil., - - -	<i>Logic and Rhetoric</i> , - - -	1902
John Graham Kerr, M.A., F.R.S., - - -	<i>Zoology</i> , - - -	1902
William Macneile Dixon, Litt.D., - - -	{ <i>English Language and Literature</i> , - - - }	1904
John Walter Gregory, D.Sc., F.R.S., - - -	<i>Geology</i> , - - -	1904
William Murray Gloag, K.C., B.A., - - -	<i>Law</i> , - - -	1905
Diarmid Noël Paton, M.D., B.Sc., F.R.S.,	<i>Physiology</i> , - - -	1906
Gilbert Austin Davies, M.A., - - -	<i>Greek</i> , - - -	1906
Wm. Barron Stevenson, B.D., D.Litt., - - -	{ <i>Hebrew and Semitic Languages</i> , - - - }	1907
Thomas H. Bryce, M.A., M.D., - - -	<i>Anatomy</i> , - - -	1909
George A. Gibson, M.A., LL.D., - - -	<i>Mathematics</i> , - - -	1909
George Milligan, D.D., - - -	<i>Biblical Criticism</i> , - - -	1910
John M. Munro Kerr, M.D., - - -	{ <i>Obstetrics and Gynaecology</i> (Muirhead Chair), - - - }	1911
Robert Kennedy, M.A., M.D., D.Sc., - - -	{ <i>Surgery</i> (St. Mungo Chair), - - - }	1911
John H. Teacher, M.A., M.D., - - -	{ <i>Pathology</i> (St. Mungo—Notman—Chair), - - - }	1911
Walter K. Hunter, M.D., D.Sc., - - -	{ <i>Medicine</i> (Muirhead Chair), - - - }	1911
T. K. Monro, M.A., M.D., C.M., - - -	<i>Practice of Medicine</i> , - - -	1913
Robert S. Rait, C.B.E., M.A., - - -	{ <i>Scottish History and Literature</i> , - - - }	1913
John D. Cormack, C.M.G., D.Sc., - - -	{ <i>Civil Engineering and Mechanics</i> , - - - }	1913
Wm. Robert Scott, D.Phil., Litt.D., - - -	<i>Political Economy</i> , - - -	1915
Wm. S. McKechnie, LL.B., D.Phil., - - -	<i>Conveyancing</i> , - - -	1916

*Note.*—"The precedence of the Masters in point of ceremony shall, in all time coming, be, that the Professor of Divinity take place first after the Principal, and that all the other Masters and Professors of whatever kind take place of other according to the seniority and time of their admissions into their respective offices."—*Statute of Royal Visitation, 1727.*

<sup>1</sup> Professor Phillimore occupied the Chair of Greek from 1899 till he was appointed to the Chair of Humanity in 1906.

## Deans of the several Faculties.

<i>Arts</i> , - - - - -	Professor Davies.
<i>Science</i> , - - - - -	Professor Gibson.
<i>Medicine</i> , - - - - -	Professor Bryce.
<i>Law</i> , - - - - -	Professor Scott.
<i>Theology</i> , - - - - -	Professor Milligan.

## Lecturers.

Appointed

J. Walker Downie, M.B., C.M.,	{ <i>Diseases of the Throat and Nose</i> , - - }	1895
A. M. Ramsay, M.D., - - -	- <i>Diseases of the Eye</i> , - -	1895
Charles Martin ( <i>Croix de Guerre</i> ),	{ <i>French Language and Literature</i> , - - }	1898
M.A. (Paris), O.I.P., <sup>1</sup>	- <i>Political Philosophy</i> , -	1901
Robert A. Duff, M.A., D.Phil.,	- <i>Engineering Drawing and Design</i> ,	1901
Harry Bamford, M.Sc., -	- <i>Chemistry</i> , - -	1903
* Herbert W. Bolam, B.Sc., Ph.D.,	{ <i>Public International Law</i> , <i>International Private Law</i> , }	1904
A. H. Charteris, LL.B., - -	- <i>Evidence and Procedure</i> ,	1905
Robert Lamond, LL.B., - -	- <i>Insanity</i> , - - -	1905
Landel R. Oswald, M.B., C.M.,	- <i>Moral Philosophy</i> , -	1905
John W. Scott, M.A., - - -	- <i>Electrical Engineering</i> ,	1906
John S. Nicholson, B.Sc., <sup>1</sup> -	- <i>Education</i> , - - -	1907
William Boyd, M.A., B.Sc., D.Phil.,	- <i>English Language</i> , -	1907
Ritchie Girvan, M.A., - - -	- <i>Mercantile Law</i> , - -	1907
Thomas G. Wright, LL.B., - -	{ <i>German Language and Literature</i> , - - }	1907
Herbert Smith, Ph.D., - - -	- <i>Arabic</i> , - - -	1907
Thomas H. Weir, B.D., M.R.A.S.,	- <i>Organic Chemistry</i> , -	1907
Thomas S. Patterson, D.Sc., Ph.D.,	- <i>Psychology</i> , - - -	1907
Henry J. Watt, Ph.D., D.Phil.,	- <i>Metallurgical Chemistry</i> ,	1908
Cecil H. Desch, D.Sc., Ph.D., -	- <i>Anatomy</i> , - - -	1909
* Wm. K. Hutton, M.A., M.B., C.M.,	- <i>Dermatology</i> , - -	1909
J. Wyllie Nicol, M.B., C.M., -	- <i>Social Economics</i> , -	1909
John Harry Jones, M.A., - - -	{ <i>Italian Language and Literature</i> , - - }	1910
Ernesto Grillo, Litt. D. (Flor.), LL.D.,	- <i>Zoology</i> , - - -	1910
Wilfred E. Agar, M.A., D.Sc., <sup>1</sup> -	- <i>Geography</i> , - - -	1911
J. D. Falconer, M.A., D.Sc., - -	- <i>Engineering</i> , - - -	1911
T. B. Morley, D.Sc., A.M.I.Mech.E., <sup>1</sup>	- <i>Roman History and Antiquities</i> ,	1912
Stewart N. Miller, M.A., <sup>1</sup> -	- <i>Greek (and Hellenistic Greek)</i> ,	1912
William Rennie, M.A., - - -	{ <i>Celtic Language and Literature</i> , }	1912
George Calder, B.D., D.Litt., -	-	

<sup>1</sup> On leave of absence for military service. \* Lecturers at Queen Margaret College.

				Appointed
J. M. F. Drummond, M.A., <sup>1</sup>	-	<i>Botany (Plant Physiology),</i>	-	1912
Leonard J. Russell, B.Sc., D.Phil.,	-	<i>Logic,</i>	-	1912
James G. Gray, D.Sc.,	-	<i>Physics,</i>	-	1913
R. J. T. Bell, M.A., D.Sc.,	-	<i>Mathematics,</i>	-	1913
Robert G. Nisbet, M.A.,	-	<i>Latin,</i>	-	1913
G. E. Allan, D.Sc.,	-	<i>Electricity (Pure and Applied),</i>	-	1913
R. A. Houstoun, D.Sc., Ph.D.,	-	<i>Physical Optics,</i>	-	1913
A. A. Mitchell, LL.B.,	-	<i>General Jurisprudence,</i>	-	1913
Léon M. Pitoy, B.Sc., L. ès L.Phil.,	{	<i>French (Second Lecturer),</i>	}	1914
James B. Hutton, M.A., <sup>1</sup>	-	<i>Greek History and Archaeology,</i>	-	1914
Alfred W. Stewart, D.Sc.,	-	<i>Physical Chemistry,</i>	-	1914
Walter J. Dilling, M.B., Ch.B., <sup>1</sup>	{	<i>Materia Medica and Pharmacology (Pollok Foundation),</i>	}	1914
J. Shaw Dunn, M.A., M.D., <sup>1</sup>	-	<i>Clinical Pathology,</i>	-	1914
Albert A. Gray, M.D.,	-	<i>Diseases of the Ear,</i>	-	1917
Hugh G. Brennan, M.A.,	-	<i>Russian,</i>	-	1917

## Lecturers for 1918-19.

				Date of First Appointment
Neil M'Arthur, M.A., B.Sc., <sup>1</sup>	-	<i>Mathematics,</i>	-	1907
John B. Black, M.A., <sup>3</sup>	-	<i>British History,</i>	-	1910
J. S. Dunkerly, B.Sc., <sup>1</sup>	-	<i>Zoology (Protozoology),</i>	-	1911
F. J. Charteris, M.D.,	-	<i>Materia Medica (Pharmacy),</i>	-	1911
James A. Adams, M.D.,	-	<i>Clinical Surgery</i>	-	1911
John M. Cowan, M.D., D.Sc., <sup>1</sup>	-	<i>Clinical Medicine</i>	-	1911
J. B. Mackenzie Anderson, M.B.,	-	"	-	1911
Arnold W. Gomme, B.A., <sup>1</sup>	-	<i>Greek,</i>	-	1912
John R. Peddie, M.A., <sup>2</sup>	-	<i>English,</i>	-	1912
* William Anderson, M.A., <sup>-1</sup>	-	<i>Logic,</i>	-	1912
A. N. M'Gregor, M.D.,	-	<i>Clinical Surgery,</i>	-	1912
George Green, <sup>2</sup> M.A., D.Sc., <sup>1</sup>	-	<i>Natural Philosophy,</i>	-	1913
Thos. M. MacRobert, M.A., D.Sc., <sup>1</sup>	{	<i>Mathematics,</i>	-	1913
John M'Whan, M.A., Ph.D.,	-	-	-	-
David Thomson, B.Sc., <sup>1</sup>	-	<i>Engineering,</i>	-	1913
G. W. Tyrrell, A.R.C.Sc.,	-	<i>Geology,</i>	-	1913
W. R. Jack, M.D., B.Sc.,	-	<i>Clinical Medicine,</i>	-	1913
J. H. Macdonald, M.B., Ch.B.,	{	<i>Psychological Medicine</i>	}	1913
	{	<i>(Royal Infirmary),</i>	}	-
John Macintyre, M.B., C.M.,	-	<i>Diseases of the Throat and Nose</i>	-	1913
	{	<i>(Royal Infirmary),</i>	}	-
J. Kerr Love, M.D., C.M.,	-	<i>Diseases of the Ear</i>	-	1913
	{	<i>(Royal Infirmary),</i>	}	-

<sup>1</sup> On leave of absence for military service. <sup>2</sup> Lecturer at Queen Margaret College.<sup>3</sup> Acting Adjutant, O.T.C. <sup>3</sup> Prisoner of war.

		Appointed
John Henderson, M.D., <sup>2</sup>	- - <i>Clinical Medicine,</i>	- 1914
G. Haswell Wilson, M.B., Ch.B.,	- <i>Bacteriology,</i>	- 1914
Thomas Kay, M.B., C.M., <sup>2</sup>	- <i>Clinical Surgery,</i>	- 1914
George M'Intyre, M.B., C.M.,	- { <i>Dermatology</i>	} 1914
	(Royal Infirmary),	
David Watson, M.B., C.M.,	- <i>Venereal Diseases,</i>	- 1914
George A. Johnston, M.A., <sup>2</sup>	- <i>Moral Philosophy,</i>	- 1914
G. H. Edington, M.D., D.Sc., <sup>2</sup>	- <i>Clinical Surgery,</i>	- 1914
<sup>1</sup> David Burns, M.A., B.Sc.,	- <i>Physiology,</i>	- 1915
Andrew Allison, M.B., D.P.H., <sup>2</sup>	- <i>Public Health,</i>	- 1915
James R. Riddell, F.R.F.P.S.G.,	{ <i>Electrical Diagnosis and</i>	} 1917
	<i>Therapeutics (Royal</i>	
	<i>Infirmary),</i>	
Andrew Browning, M.A., <sup>2</sup>	- <i>History,</i>	- 1917
James Connell,	- <i>Practical Astronomy,</i>	- 1917
John M. Thompson, M.A., D.Sc.,	<i>Botany (Plant Morphology),</i>	1918
Thomas Walmsley, M.D.,	- <i>Anatomy (Embryology),</i>	1918
Alex. M. Watson,	- <i>Physiology (Histology),</i>	1918
J. F. Gemmill, M.A., M.D., D.Sc.,	<i>Research Fellow in Embryology.</i>	

### Boards of Studies.—1918.

**In Arts. Language and Literature.**—The Principal, the Dean of the Faculty of Arts, Professors Phillimore, Dixon, and Stevenson, Drs. Smith and Grillo, and Messrs. Martin, Nisbet, Miller, Rennie, Weir, Girvan, Peddie, Calder, Gomme, Hutton, and Brennan.—Professor Phillimore, *Convener*.

**Philosophy.**—The Principal, the Dean of the Faculty of Arts, Professors Sir Henry Jones, Scott, and Latta, Drs. R. A. Duff, Watt, and Boyd, and Messrs. Scott, J. H. Jones, Peddie, Russell, Anderson, and White.—Professor Sir Henry Jones, *Convener*.

**Science.**—The Principal, the Dean of the Faculty of Arts, Professors Bower, Gray, Graham Kerr, Gregory, and Gibson, Drs. Bolam, Bell, Patterson, Desch, J. G. Gray, Houstoun, Agar, MacRobert, Green, M'Whan, Stewart, and Falconer, and Messrs. M'Arthur, Drummond, Tyrrell, and Dunkerly.—Professor Gray, *Convener*.

**History and Law.**—The Principal, the Dean of the Faculty of Arts, Professors Cooper, Medley, Rait, and M'Kechie, and Messrs. Buchanan, Black, Miller, Hutton, and Browning.—Professor Medley, *Convener*.

**English (Honours).**—The Principal, the Dean of the Faculty of Arts, Professors Phillimore, Latta, Sir Henry Jones, Dixon, Medley, and M'Kechie, Dr. Grillo, and Messrs. Black, Girvan, Peddie, and Browning.—Professor Dixon, *Convener*.

<sup>1</sup> Also Muirhead Demonstrator. <sup>2</sup> On leave of absence for military service.

*Economics (Honours).*—The Principal, the Dean of the Faculty of Arts, Professors Sir Henry Jones, Latta, Scott, Medley, and M'Kechnie, Dr. Duff, and Messrs. Black, J. H. Jones, and Browning.—Professor Scott, *Convener*.

*In Science.*—Professors Bower, Sir J. H. Biles, Glaister, Gray, Graham Kerr, Gregory, Noël Paton, Bryce, Gibson, and Cormack, Drs. Desch, Watt, Bolam, Patterson, Bell, Allan, J. G. Gray, Houstoun, Agar, Green, M'Whan, Stewart, MacRobert, and Falconer, and Messrs. Bamford, Nicholson, Morley, Thomson, Hutton, M'Arthur, Drummond, Tyrrell, and Dunkerly.—Professor Gibson, *Convener*.

*In Medicine.*—Professors Bower, Sir William Macewen, Murdoch Cameron, Stockman, Glaister, Muir, Gray, Graham Kerr, Noël Paton, Bryce, Munro Kerr, Kennedy, Teacher, Hunter, and Monro, Drs. A. A. Gray, Downie, Oswald, Hutton, A. M. Ramsay, Riddell, Bolam, Patterson, Jack, Dunn, Edington, Gray, Nicol, Agar, Martin, Clark, Charteris, Wilson, Adams, M'Gregor, Kay, Cowan, Mackenzie Anderson, Watson, Henderson, Macdonald, J. Macintyre, G. M'Intyre, Love, and Mr. Dunkerly.—The Dean of the Faculty of Medicine, *Convener*.

**Joint Board of Studies in Applied Science** (The University and the Royal Technical College, Glasgow).

*University Members.*—The Principal, Professors Gibson, Gray, Gregory, Sir J. H. Biles, Cormack, Dr. Desch, Dr. Patterson, and Dr. Stewart, Mr. Nicholson, and Mr. Bamford.

*Royal Technical College Members.*—The Director and Professors G. G. Henderson, D. Burns, M. Maclean, J. G. Longbottom, A. L. Mellanby, James Muir, G. Moncur, John Miller, A. Campion, T. Gray, and Mr. E. J. Edwards.

**Board of Studies in Education.**—The Principal, the Dean of the Faculty of Arts, Professors Noël Paton, Glaister, Latta, Dr. Boyd, and Dr. Watt.

### Official Advisers of Studies.

<i>In Arts,</i>	-	-	Robert A. Duff, M.A., D.Phil.
<i>In Law,</i>	-	-	Professor W. M. Gloag, K.C., B.A.
<i>In Medicine,</i>	-	-	Professor T. H. Bryce, M.A., M.D.

### University Assistants or Demonstrators.

<i>Humanity,</i>	-	-	-	{ John W. Pirie, M.A. <sup>1</sup>
				{ Mia M. G. Waddell, M.A.
<i>English Language and Literature,</i>	-	-	-	{ Margaret M. Gray, M.A.
				{ R. P. Cowl, M.A. <sup>1</sup>

<sup>1</sup> On leave of absence for military service.

<i>Hebrew,</i>	-	-	-	-	(Vacant).
<i>French,</i>	-	-	-	-	{ Jean Vallette. <sup>1</sup> [M. Saurat.] Mary C. Cameron, M.A.
<i>German,</i>	-	-	-	-	(Vacant).
<i>Logic,</i>	-	-	-	-	Alexander H. Bodin, M.A. <sup>2</sup>
<i>Moral Philosophy,</i>	-	-	-	-	Alexander White, M.A. <sup>1</sup>
<i>Mathematics,</i>	-	-	-	-	Arthur S. Morrison, M.A., B.Sc. <sup>1</sup>
<i>Natural Philosophy,</i>	-	-	-	-	Charles Cochrane, M.A., B.Sc. <sup>1</sup>
Arnott and Thomson Demon- strator in <i>Experimental</i> <i>Physics,</i>	-	-	-	-	{ George E. Allan, D.Sc.
<i>History,</i>	-	-	-	-	Isabella M. Urquhart, M.A.
<i>Civil Engineering and Me- chanics,</i>	-	-	-	-	{ Robert M. Brown, B.Sc. ( <i>Young</i> Assistant). <sup>1</sup> A. L. Tackley, B.Sc. <sup>1</sup>
<i>Naval Architecture,</i>	-	-	-	-	A. M. Robb, B.Sc. <sup>1</sup>
<i>Mining,</i>	-	-	-	-	(Vacant).
<i>Geology,</i>	-	-	-	-	(Vacant).
Baxter Demonstr. in <i>Geology,</i>	-	-	-	-	Colin M. Leitch, B.Sc. <sup>1</sup>
<i>Geography,</i>	-	-	-	-	Annette G. Mann, B.Sc.
<i>Botany,</i>	-	-	-	-	Annette G. Mann, B.Sc.
<i>Zoology,</i>	-	-	-	-	J. M. F. Floyd, M.A. <sup>1</sup>
<i>Chemistry,</i>	-	-	-	-	{ James Roberts, F.C.S. Andrew Henderson, M.A., B.Sc. John M. Martin. <sup>1</sup>
<i>Organic Chemistry,</i>	-	-	-	-	Andrew M'Millan, M.A., D.Sc.
<i>Physical Chemistry,</i>	-	-	-	-	Elizabeth MacDougall, B.Sc.
<i>Metall. Chemistry,</i>	-	-	-	-	Catherine F. Davidson, B.Sc.
<i>Anatomy,</i>	-	-	-	-	William Primrose, M.B., Ch.B. <sup>1</sup>
<i>Anatomy</i> (at Queen Margaret College),	-	-	-	-	{ N. H. W. Maclaren, Ph.D.
<i>Chemistry</i> (at Queen Margaret College),	-	-	-	-	{ Margaret B. Haugh.
<i>Physiology,</i>	-	-	-	-	(Vacant).

<sup>1</sup> On leave of absence for military service.<sup>2</sup> Prisoner of war in Germany

<i>Materia Medica</i> , - - -	-	{ Geo. H. Clark, M.D., D.P.H. (Weir Assistant). John C. Middleton, M.A., B.Sc., M.B., Ch.B. <sup>1</sup>
<i>Pathology</i> , - - -	-	John W. M'Nee, M.D., Ch.B. <sup>1</sup>
<i>Pathology (St. Mungo—Notman—Chair)</i> , - -	- }	A. de Groodt, M.D.
<i>Forensic Medicine</i> , - - -	-	(Vacant).
<i>Surgery</i> , - - -	-	J. A. C. Macewen, B.Sc., M.B., C.M. <sup>1</sup>
<i>Surgery (St. Mungo Chair)</i> , -	-	James Battersby, F.R.C.S. ( <i>Temp.</i> ).
<i>Practice of Medicine</i> , - -	-	{ Geo. A. Allan, M.B., Ch.B. Adam Patrick, M.A., M.D., Ch.B. <sup>1</sup>
<i>Medicine (Muirhead Chair)</i> , -	-	John Fergus, M.D. ( <i>Temporary</i> ).
<i>Midwifery</i> , - - -	-	{ Samuel J. Cameron, M.B., Ch.B. Archibald N. M'Lellan, M.B., C.M.
<i>Obstetrics and Gynaecology (Muirhead Chair)</i> , - -	-	{ A. Louise M'Iloy, M.D., D.Sc. <sup>1</sup> Jas. Hendry, M.A., B.Sc., M.B. <sup>1</sup> A. W. Russell, M.A., M.B. ( <i>Temp.</i> ).

### Examiners for Degrees.

*In Divinity.*—The Professors in the Faculty of Theology, assisted by the Rev. Daniel Lamont, B.D., and the Rev. A. C. Baird, B.D., B.Sc.

*In Law.*—The Professors and Lecturers in the Faculty of Law, assisted by:—

William Philips, LL.B.,	-	-	-	-	1911
Thomas Jones, M.A.,	-	-	-	-	1917
J. A. M'Callum, LL.B.,	-	-	-	-	1918
F. G. Mackillop, LL.B.,	-	-	-	-	1918

*In Medicine.*—The Professors and Lecturers in the Faculty of Medicine, as specified in Section xxv. of University Court Ordinance No. xxxi., and the following Additional Examiners:—

E. P. Cathcart, M.D., D.Sc.,	-	-	Physiology,	-	-	1915
Sir Thos. Oliver, M.D., LL.D.,	-	-	Medicine,	-	-	1915

<sup>1</sup> On leave of absence for military service.

H. H. Brindley, M.A.,	-	-	-	Zoology,	-	-	-	1915
H. M. Galt, M.B., B.Sc.,	-	-	-	{ Medical Jurisprudence				
				{ and Public Health,				1916
Samuel Sloan, M.D.,	-	-	-	Midwifery,	-	-	-	1916
W. H. Lang, D.Sc., M.B.,	-	-	-	Botany,	-	-	-	1916
R. Barclay Ness, M.A., M.B.,	-	-	-	{ Materia Medica and				
				{ Therapeutics,				1917
J. M. Beattie, M.D.,	-	-	-	Pathology,	-	-	-	1917
R. H. Parry, F.R.C.S.,	-	-	-	Surgery,	-	-	-	1917
Sir Hector Cameron, M.D.,	-	-	-	Surgery,	-	-	-	1917
Alex. Napier, M.D.,	-	-	-	Medicine,	-	-	-	1917
D. B. M'Quistan, M.A., B.Sc.,	-	-	-	Physics,	-	-	-	1918
J. Millar Thomson, LL.D., F.R.S.,	-	-	-	Chemistry,	-	-	-	1918
Johnson Symington, M.D.,	-	-	-	Anatomy,	-	-	-	1918

*In Arts.*—The Professors and Lecturers in the Faculty of Arts, as specified in Section xiv. of Ordinance No. 13, assisted by the following Additional Examiners:—

James Robertson, D.D., LL.D.,	-	{ Hebrew, - - - } 1911
		{ Arabic, - - - }
George Neilson, LL.D.,	-	Scottish History and Literature, 1915
H. H. Brindley, M.A.,	-	- Zoology, - - - 1915
John Horne, LL.D., F.R.S.,	-	- Geology, - - - 1915
W. H. Lang, D.Sc., M.B.,	-	- Botany, - - - 1916
C. Grant Robertson, M.A.,	-	- History, - - - 1917
W. A. Goligher, M.A.,	-	- Classics, - - - 1917
Hugh Walker, M.A., LL.D.,	-	- English, - - - 1917
H. E. Berthon, M.A.,	-	- French, - - - 1917
J. G. Robertson, M.A., Ph.D.,	-	- German, - - - 1917
Magnus Maclean, D.Sc.,	-	- Celtic, - - - 1917
Alex. S. Fulton, M.A.,	-	- Arabic, - - - 1917
H. J. W. Hetherington, M.A.,	-	- Logic and Moral Phil., 1917
Thomas Jones, M.A.,	-	- Political Economy, - 1917
John G. Kerr, M.A., LL.D.,	-	- Education, - - - 1917
L. W. Lyde, M.A., F.R.G.S.,	-	- Geography, - - - 1917
Signor Valgimigli, M.A.,	-	- Italian, - - - 1918
Peter Pinkerton, D.Sc.,	-	- Mathematics, - - - 1918
Alex. Russell, D.Sc.,	-	- Natural Philosophy, - 1918
J. Millar Thomson, LL.D., F.R.S.,	-	- Chemistry, - - - 1918
J. A. McCallum, LL.B.,	-	- Constitutional Law and History, 1918
F. G. Mackillop, LL.B.,	-	- Roman Law, - - - 1918

*In Science.*—Professor Bower, Sc.D., Professor Sir J. H. Biles, LL.D., Professor Becker, Ph.D., Professor Glaister, M.D., Professor Gray, LL.D., Professor Graham Kerr, M.A., F.R.S., Professor Gregory, D.Sc., Professor Noël Paton, M.D., Professor Bryce, M.D., Professor Gibson, LL.D., Professor Cormack, C.M.G., D.Sc., and additional examiners.

*Preliminary Examiners in Arts, Science, and Medicine.*—Professor Gibson, LL.D., Professor Phillimore, M.A., Professor Medley, M.A., †Professor Dixon, Litt.D., Professor Davies, M.A., Robert J. T. Bell, M.A., D.Sc., William Rennie, M.A., Charles Martin, M.A. †Herbert Smith, M.A., Ph.D., Alec Cran, M.A., Ph.D., Ritchie Girvan, M.A., A. M. Williams, M.A., †A. Veitch Lothian, M.A., B.Sc., †W. A. Edward, M.A., J. G. Robertson, M.A., Ph.D., Rev. John Maclean, D.D.

### Queen Margaret College.

*Mistress,* - - - - Miss Frances H. Melville, M.A., B.D.  
*Tutor in Arts,* - - - - Miss Mand G. May, M.A.  
*Tutor in Science and Medicine,* { Agnes Picken-Salmon, M.A., M.B.,  
 Ch.B.  
*Secretary to Mistress,* - - - Miss E. C. Wallace, M.A.

### Other Officials.

#### UNIVERSITY COURT.

*Secretary,* - - - - { Alan E. Clapperton, B.L., LL.D.,  
 91 West Regent Street.  
*Assistant Secretary,* - - - Robert Brough, The University.  
*Staff,* - - - - { Miss Mary Fairfoul, Miss Ella R.  
 Fleming, William Mackay.<sup>1</sup>

#### SENATE.

*Clerk of Senate,* - - - - Professor George Milligan, D.D.

#### REGISTRAR.

*Registrar,* - - - - Albert Morrison.  
*Staff,* - - - - { John C. Ballantyne,<sup>1</sup> John C. Morri-  
 son,<sup>1</sup> William F. Ballantyne,<sup>1</sup>  
 William M'Lean,<sup>1</sup> Miss Jane R.  
 Bell.

#### LIBRARY.

*Librarian,* - - - - (Vacant.)  
*Sub-Librarian,* - - - - Mungo Ferguson, M.A.  
*Assistant Librarians,* - - { Irving M. Morgan, M.A., Wilson  
 Steel, Adam Henderson, George  
 Smith,<sup>1</sup> Robert Morrison,<sup>1</sup> James  
 D. Robertson, Daniel Paterson.<sup>1</sup>

<sup>1</sup> On leave of absence for military service.

† Members of the Joint Board.

## HUNTERIAN MUSEUM.

<i>Honorary Curator of Zoological Collections,</i>	-	-	} Professor Graham Kerr.
<i>Assistant Curator in Zoology,</i>			James Chumley.
<i>Honorary Curator of Geological Collections,</i>	-	-	} Professor Gregory.
<i>Assistant Curator in Geology,</i>			W. R. Smellie, M.A., D.Sc. <sup>1</sup>
<i>Honorary Curator of Anatomical and Archaeological Collections,</i>	-	-	} Professor Bryce.
<i>Honorary Curator of the Coins,</i>			Geo. Macdonald, C.B., M.A., LL.D.
<i>Honorary Curator of the Roman Collection,</i>			S. N. Miller, M.A.
<i>Under-Keeper of the Museum,</i>			William Kinghorn.

## GENERAL COUNCIL.

<i>Clerk of the General Council,</i>	-	-	-	{ Archibald Craig, LL.B., 174 West George Street.
<i>Factors,</i>	-	-	-	Hill & Hoggan, 15 West George St.
<i>Law-Agents,</i>	-	-	-	{ Mitchells, Johuston & Co., 160 West George Street.
<i>Auditors,</i>	-	-	-	{ Brown, Fleming & Murray, 175 West George Street.
<i>Publishers and Booksellers to the University,</i>	-	-	-	{ James MacLehose & Sons, 61 St. Vincent Street.
<i>Printers to the University,</i>	-	-	-	{ Robert MacLehose & Co. Ltd., Anniesland.
<i>Organist,</i>	-	-	-	A. M. Henderson, L.R.A.M.
<i>Robe Makers to the University,</i>	-	-	-	{ James Thomson & Son, 189 West George Street.
<i>Master of Works,</i>	-	-	-	John Stitt.
<i>Bedellus,</i>	-	-	-	William Finlayson.

## Representatives of the University Court on Charitable and other Boards.

<i>General Medical Council</i>	—	Principal Sir Donald MacAlister, K.C.B., M.D., LL.D.
<i>Western Infirmary</i>	—	Sir Matthew Arthur, Bart., and Sir Hector C. Cameron, M.D., LL.D.
<i>Royal Infirmary</i>	—	Principal Sir Donald MacAlister, K.C.B., and Rev. Dr. Smith.
<i>Victoria Infirmary</i>	—	John Hutchison, LL.D., and Sir Robert Graham, D.L.
<i>Glasgow Eye Infirmary</i>	—	Professor D. Noël Paton, M.D., F.R.S.

<sup>1</sup> On leave of absence for military service.

*Royal Samaritan Hospital for Women*—Henry E. Gordon, B.A.  
*West of Scotland Agricultural College*—Professor Scott, Litt.D.  
*Glasgow Veterinary College*—Professor Muir, M.D., F.R.S.  
*Glasgow Athenæum Commercial College*—Sir William Lorimer, LL.D.  
*Pearce Institute, Govan*—David Murray, LL.D. and Anthony S. Murray, M.A., B.L.  
*Wallace Hall Academy, Dumfries*—  
*Glasgow Provincial Committee for the Training of Teachers*—Sir Donald MacAlister, K.C.B., Miss Frances H. Melville, Professors Dixon and Rait, and Colonel A. B. Grant, M.V.O.  
*The Muirhead Trust*—Alan E. Clapperton, B.L., LL.D.  
*Highlands and Islands Educational Trust*—Rev. George Calder, B.D.  
*Stirling Educational Trust*—Charles King.  
*The Territorial Force Association of the County of the City of Glasgow*—Professor Medley, M.A.  
*Army Commissions Nomination Board*—Professor Gray, LL.D., F.R.S., and Professor Medley, M.A.

### Representatives of the Senate on Educational and other Boards.

*Royal Technical College, Glasgow*—The Principal and Professor Gibson.  
*Glasgow and West of Scotland Commercial College*—The Principal.  
*West of Scotland Agricultural College*—Professor Gregory.  
*Glasgow Veterinary College*—Professor Kennedy.  
*Western Infirmary*—Professors Sir Henry Jones and Noël Paton.  
*Royal Infirmary*—Professors Glaister and Bryce.  
*Glasgow Maternity and Women's Hospital*—Professor Bryce.  
*Glasgow Convalescent Home*—Professor Muir.  
*Royal Asylum for the Blind*—Professor Kennedy.  
*Glasgow City Educational Endowments Board*—Professor Stewart.  
*Glasgow General Educational Endowments Board*—Professors Stewart and Latta.  
*Hutchesons' Educational Trust*—Professor Gibson.  
*John Clark (Mile-End) Bursary Trust*—Professor Milligan.  
*John Gibson Bursary Trust*—The Principal.  
*Scott Scholarship and Bursaries Trust*—Professors Phillimore and Dixon.  
*Glasgow School of Art*—Professor Phillimore.  
*Haldane Trust*—Professor Phillimore.  
*Baillie's Institution*—Professor Latta.  
*Ministers' and Professors' Widows Fund*—Professors Gloag and Rait.

### Representatives of the General Council on Educational Trusts.

*Scott Scholarship and Scott Bursaries*—John Hutchison, LL.D.  
*Denny Bursaries*—John Hutchison, LL.D.

### Joint Committees of Senate and Court.

LIBRARY COMMITTEE.—*Convener*, Professor Latta.

*Appointed by the Senate*—Professors Latta, Dixon, Noël Paton, Davies, Gibson, and Milligan.

*Appointed by the University Court*—David Murray, LL.D., and John Hutchison, LL.D.

MUSEUMS COMMITTEE.—*Convener*, The Principal.

*Appointed by the Senate*—The Principal and Professors Graham Kerr, Gregory, and Bryce.

*Appointed by the University Court*—The Lord Provost and David Murray, LL.D.

OBSERVATORY AND LABORATORIES COMMITTEE.—

*Convener*, Rev. John Smith, D.D.

*Appointed by the Senate*—The Principal and Professors Stockman, Glaister, and Graham Kerr.

*Appointed by the University Court*—Sir William Lorimer, LL.D., and Rev. John Smith, D.D.

### The Carnegie Trust for the Universities of Scotland.

*Trustee representing Glasgow University*—The Principal.

### Committee on External Examinations and Appointments.

The Principal and Professors Bower, Cormack, Sir J. H. Biles, Sir Henry Jones, Muir, Phillimore, Gray, Medley, Latta, Munro Kerr, Dixon, Gibson, Hunter, Rait, Scott, the Lord Provost, Sir Wm. Lorimer, Sir Robert Graham, Col. A. B. Grant, Dr. R. A. Duff, Miss Melville, B.D., and Miss May, M.A.—Professor Medley, *Convener*; Dr. R. A. Duff, *Secretary*.

### Committee on the Training of Teachers.

The Principal (*Convener*), Professors Bower, Sir Henry Jones, Phillimore, Gray, Medley, and Latta.

### Students' Representative Council.

Nov., 1917—Nov., 1918.

*President*—A. S. Strachan, M.A., B.Sc.

*Secretary*—Annie Barlow, B.Sc.

*Treasurer*—George F. Todd, C.A., 103 Bath Street.

*Editor of Magazine*—John Anderson, M.A.

*Finance Manager*—John Lavelle.

*Convener of Queen Margaret Section*—A. Mabel Vaughan.

### Officers' Training Corps.

The Glasgow University Contingent of the Senior Division of the Officers' Training Corps began its work in February, 1909. The object of the O.T.C. is to train students and others for commissions in the Special Reserve of Officers, in the Territorial Force, and for temporary commissions in the Regular Army.

Membership of the O.T.C. is confined to the following classes :

- (1) Intra-Mural students of the University.
- (2) Ex-Cadets of Junior Division, Officers' Training Corps, who are specially recommended by their commanding officers. (Candidates should apply to their commanding officer for particulars.)
- (3) Medical Students. (For information, interview Adjutant, Glasgow University O.T.C.).
- (4) All members of the University of military age who are unfit for general service (Grade III.).

*N.B.*—Intra-mural students, who have had no previous military training, must apply for membership at least three months before reaching the age of 18.

The affairs, other than military, of the contingent are managed by the Military Education Committee of the University. This Committee is composed as follows :

*From the University Court*—The Principal, Dr. J. Hutchison, Col. A. B. Grant.

*From the Senate*—Professors Medley (Convener and Treasurer), Gray, Latta, Graham Kerr, Paton and Cormack.

*Co-opted Military Member*—The Acting Adjutant.

The Officers of the Contingent are as follows :

*Hon. Chaplain*—The Very Rev. Prof. Cooper, V.D., D.D., Litt.D., D.C.L.

*Acting Adjutant*—Capt. J. R. Peddie, M.A.

Applications for information regarding enrolment should, wherever possible, be made in person to the Acting Adjutant at Headquarters, University Avenue.

*Officers of the Unit seconded for service with other Units during the War—*

- Capt. W. S. Martin, M.A., M.B.—Capt. R.A.M.C.
- Capt. J. Hendry, M.A., B.Sc., M.B.—Capt. R.A.M.C.
- Capt. G. H. Clark, M.D., D.P.H.—Major, R.A.M.C.
- Capt. F. MacRae, M.A.—Capt. No. 9 Officer Cadet Battalion.
- Lieut. W. C. Mackie, M.B.—Capt. R.A.M.C. (S.R.).
- Lieut. G. S. Fraser, M.A., B.L.—Capt. H.L.I.
- Lieut. A. M. Robb, B.Sc.—Temp. Major (Special Services).
- 2nd Lieut. W. E. Maitland, M.B.—2nd Lieut. Seaforth Highlanders (died of wounds).
- 2nd Lieut. V. B. Hill—Lieut. King's Royal Rifles (died of wounds).
- 2nd Lieut. F. J. MacCunn, B.A., B.Litt.—Capt. Cameron Highlanders (fell in action).
- 2nd Lieut. C. P. Williamson, L.D.S.—Lieut. Royal Engineers (fell in action).
- 2nd Lieut. J. B. Black, M.A., B.A.—Lieut. H.L.I. (prisoner of war).

## I.—THE UNIVERSITY.

The University of Glasgow is a corporate body, which has always included a Chancellor, Rector, Dean of Faculties, Principal, Professors, and Students. It was originally founded, like most other ancient establishments of the same nature, by the authority of the See of Rome. Pope Nicholas V., by a bull, dated the seventh of January, 1450-1, erects and establishes in Glasgow a "*Studium Generale . . . tam in theologia ac jure canonico et civili, quam in artibus, et quavis alia licita facultate.*" He then declares that this University shall have the same power of creating Masters and Doctors as any other "*studium generale*" in Christendom, and appoints the Bishop of Glasgow and his successors, Chancellors and Rectors by his authority. In the same year a body of statutes was prepared, and the University established by the exertions of the Bishop and his Chapter. It consisted, at this time, of the Chancellor and Rector, of various Masters and Doctors in the Faculties of Theology, Canon Law, and the Arts; and, lastly, of the incorporated students in these Faculties, who might be promoted to the same degrees in each, after following out the course of study prescribed in the statutes.

The University, at this time, had received no endowments, and was possessed of no property, except a University purse, into which were put some small perquisites on conferring degrees, and the patronage of two or three small chaplainries. It continued, however, to discharge its important functions with great zeal and activity, and attracted a greater number of members than could well have been expected in that rude period of society. The University Records contain little information as to lectures delivered in the Higher Faculties, or the number of the students who attended them. But we learn that within three or four years after the establishment of the University, so many young men were matriculated in the Faculty of Arts, that it was thought expedient to provide a house in which they

might reside, and to secure a regular set of teachers for their instruction.

The house provided for the accommodation of the students in Arts was known by the name of Pædagogium, or the College of Arts. It is said to have been situated in the Rottenrow; but in the year 1460, James, Lord Hamilton, bequeathed to Mr. Duncan Bunch, principal Regent of the College of Arts, and his successors, Regents, for the use of the said College, a tenement in the High Street, with four acres of land adjoining. In buildings situated on this ground the classes of the University continued to meet for upwards of four hundred years.

The Reformation produced at first great disorder in the University, its members being clergymen of the Catholic persuasion, and its chief support being derived from the Church. In 1577, James VI. prescribed very particular rules with regard to the College and the form of its government, and made a considerable addition to its funds. The charter by which the king made these regulations, and gave that property, is known by the name of *Nova Erectio*.

By this charter, provision was made for the support of a Principal, who was to teach Theology and the Holy Scriptures, and was also Professor of Hebrew and Syriac, and three Regents, of whom one was to teach Greek and Rhetoric, another Dialectics, Morals, and Politics, with the Elements of Arithmetic and Geometry, and the third, who was also Sub-Principal, was to teach all the branches of Physiology and Geography, Chronology and Astrology. The Regents were to keep each by his own Profession, so that the student had a new Regent every year.<sup>1</sup>

From this small beginning, the University continued to prosper till the era of the Restoration, having at that time, besides the Principal, two Professors of Theology, one of Medicine, four Regents or Professors of Philosophy, and one of Humanity, a Librarian, with a tolerable Library, an increased number of Bursars and of other students of all ranks. At the Restoration, however, being deprived of a great part of its revenues in consequence of the re-establishment of Episcopacy, three of the Professorships fell into abeyance, and the College was again reduced to a Principal,

<sup>1</sup>This system was altered in 1642, in accordance with the practice of the other Universities; but returned to after the Revolution. The four classes necessary to Graduation in Arts were called—the first, *Bajan*; the second, *Semi*; the third, *Baccalour*; the fourth, *Magistrand*.

a Professor of Theology, and four Regents. This state of matters continued till the Revolution, when the University again began to prosper after a long period of depression.<sup>1</sup> In the next thirty years seven Professorships were either originally founded or revived, viz.:—those of Mathematics (1691), Humanity (1706), Oriental Languages (1709), Civil Law (1712), Medicine (1712), Church History (1716), and Anatomy (1718); and to these a Professorship of Astronomy was added in 1760. The following eighteen Professorships were founded during the nineteenth century, viz.:—Natural History (1807), Surgery (1815), Midwifery (1815), Chemistry (1817), Botany (1818), Materia Medica (1831), Institutes of Medicine (1839), Forensic Medicine (1839), Civil Engineering (1840), Conveyancing (1861), English Language and Literature (1861), Divinity and Biblical Criticism (1861), Clinical Surgery (1874), Clinical Medicine (1874), Naval Architecture (1883), History (1893), Pathology (1893), Political Economy (1896). In 1903 the Chair of Geology was founded, and the Chair of Natural History became the Chair of Zoology. The Chair of Mining was founded in 1907. In 1911 the Chairs of Clinical Surgery and Clinical Medicine founded in 1874 were superseded by the establishment of the St. Mungo Chair of Surgery and the Muirhead Chair of Medicine. There were also established in 1911 the Muirhead Chair of Obstetrics and Gynaecology and the St. Mungo (Notman) Chair of Pathology. In 1913 was founded the Chair of Scottish History and Literature, and in 1917 the Tennent Chair of Ophthalmology.

#### UNIVERSITY BUILDINGS.

The changes in the City of Glasgow having so entirely altered the character of the district in which the University Buildings were planted in the fifteenth century as to render the locality altogether unsuitable for an Academic Institution; and the buildings themselves having become, by their limited extent and defective construction, inadequate for the modern requirements of a great educational establishment; measures were adopted for the removal of the University to more extended and commodious buildings, and for this purpose a large extent of ground was secured in the lands of Gilmorehill, in the western part of the City.

In 1846, a Bill for the sale of the College grounds and buildings to the Monklands Junction Railway Company, and the transference of the University to a new site on Woodlands,

<sup>1</sup> See Dr. Thomas Reid's Account of the University of Glasgow.

was passed by both Houses of Parliament, and received the Royal assent. But that measure failed by the inability of the Railway Company to implement their engagements; and the Senate of the University found no favourable opportunity for the renewal of the scheme till the year 1863, when a proposal for the purchase of the College lands and buildings was made by the City of Glasgow Union Railway Company, and a sale was accordingly effected to that Company, under their Act of Parliament, in 1864, at the price of £100,000.

The funds at the disposal of the University to carry out the scheme of removal consisted of—(1.) The produce of the sale of the old College and grounds, £100,000,—(2.) A sum of £17,500, consisting of the principal sum of £10,000, obtained by the University as compensation from the Monklands Junction Company, for non-fulfilment of their agreement, with interest since the time of payment, and—(3.) A sum of £21,400, promised by her Majesty's Government in aid of the scheme of removal, conditionally on a further sum of £24,000 being raised by public subscription, for the erection of a sick hospital in connection with the new University Buildings.

With these funds at their disposal, buildings might have been erected sufficient for the transaction of the ordinary business of instruction in the same manner as heretofore, and for the accommodation of the Library and Museum, but they must have been of the plainest design, and on a scale quite inadequate to provide for the future extension of the University.

In these circumstances, the Senate resolved to make an earnest appeal for aid to the Government and to the public. This appeal was responded to in the most generous and gratifying manner. In a short time a sum of nearly £100,000 was subscribed, chiefly in the City of Glasgow; and the Government, appreciating the importance of the work, and the public interest it had excited, announced their intention to ask Parliament for the sum of £120,000, in six annual instalments, on condition of a like amount being raised by subscription and expended on the buildings. This sum was paid out of the National Treasury, and there has been received from the public subscription for the University Buildings and the Western Infirmary and from legacies and donations the large amount of £406,203, including £45,000 from the late Marquis of Bute for the erection of the Bute Hall, £5,000 from the late Dr. J. M'Intyre for

the University Union Buildings, £5,000 from the Bellahouston Trustees for Medical Buildings in the Women's department, £4,274 from the late Sir William Pearce, Bart., for the removal of the old College front and the re-erection of the materials at the north-east gateway, £5,000 bequeathed by Mr. Andrew Cunninghame, and £1,000 (less legacy duty) bequeathed by Mr. James Marshall for the completion of the tower, and special subscriptions amounting to £2,600 for building and furnishing the Gymnasium. A sum of £30,000 was allocated to the Western Infirmary. New buildings, designed by the late Sir G. Gilbert Scott, were erected on the grounds of Gilmorehill; and in these buildings the classes of the University met for the first time in session 1870-71. In 1893 the buildings and grounds were extended by the gift of North Park House and Grounds for the use of the women students of the University. Extensive additions to the buildings at Gilmorehill have recently been made, including Engineering Lecture-rooms and Laboratory, Botany Class-rooms, Museum and Herbarium, and an extension of the Anatomical Department. The cost of these additions has been defrayed from the Randolph Bequest and from funds provided by the Bellahouston Trustees (£18,500), the Trustees of the late James B. Thomson (£13,727), and other benefactors. Two other groups of buildings were completed in 1907, funds having been provided by the Carnegie Trust (£60,500), and by the late Principal Story's University Equipment Scheme (£40,000). The one group is for the accommodation of Natural Philosophy, and the other for Physiology, Materia Medica, and Forensic Medicine. A temporary building has also been erected for increasing the accommodation of the Chemical Department, to which the Equipment Scheme contributed £10,000. In 1917 the family of the late Mr. Walter MacLellan of Blairvaddick, Merchant in Glasgow, purchased the property of Hillhead House and Ground in Glasgow Avenue, and, in his memory, presented it to the University.

#### GOVERNMENT OF THE UNIVERSITY.

Previous to the Universities Act of 1858 the whole business of the University was transacted in three distinct courts—namely, the Senate, the Faculty, and the Comitia.

The *Senate* consisted of the Rector, the Dean, the Principal, and all the Professors of the University. Meetings of the Senate were held for conferring degrees, and for the management of the libraries and other matters belonging to the University.

The *Faculty*, or College Meeting, consisted of the Principal, who presided, and the Professors of Divinity, Church History, Oriental Languages, Natural Philosophy, Moral Philosophy, Mathematics, Logic, Greek, Humanity, Civil Law, Medicine, Anatomy and Practical Astronomy. The Members of Faculty had the administration of the whole revenue and property of the College, along with the right of exercising the patronage of eight professorships vested in the College. They also presented a Minister to the parish of Govan, and had the gift of various bursaries.

The Constituent Members of the *Comitia* were the Rector, the Dean, the Principal, the Professors, and the Matriculated Students of the University. The Rector or Vice-Rector presided in this Court, and also in the Senate. Meetings of the *Comitia* were held for the election and admission of the Rector, for hearing the inaugural discourses of the Principals and Professors previously to their admission to their respective offices, and for promulgating the laws of the University.

Besides these a court, called the *Jurisdictio Ordinaria*, consisting of the Principal, the four Regents (viz., the Professors of Greek, Logic, Ethics, and Physics), and the Professor of Humanity, with the gowned students, met occasionally, for the exercise of discipline over the junior students.

By the Scottish Universities Act, 21 and 22 Vict., chap. 83, important changes were made in the constitution and government of the University. The distinction between the Faculty and the Senate was abolished; two new bodies, called the University Court and University Council, were instituted; and Commissioners were appointed, armed with extensive powers of revision and regulation, who issued ordinances, sanctioned by Her Majesty, for the administration of the affairs of the University.

Further changes were made by the Universities (Scotland) Act, 1889. A Committee of Her Majesty's Privy Council was constituted, styled the Scottish Universities Committee of the Privy Council. An Executive Commission was created with power to repeal or modify any ordinance made under the Act of 1858. The Commissioners continued to exercise their powers till the end of 1897 and issued ordinances, *inter alia*, for Degrees in Arts, Science, Medicine, Law, and Divinity, for the instruction and graduation of Women, and for special study and research. They also issued an ordinance (No. 60) laying down regulations for the constitution of the Students' Representative Council, and

regulations under which that Council is entitled to petition the Senatus Academicus and the University Court. After the expiration of the powers of the Commissioners the power of founding new professorships and making other ordinances according to a prescribed procedure devolved upon the University Court (see page 47).

### CHANCELLOR.

The Chancellor is the head of the University, and, by himself or his deputy, has the privilege of conferring Academical Degrees upon persons found qualified by the Senate. All changes in the internal arrangements of the University required, under the Act of 1858, the sanction of the Chancellor before being carried into effect. He is elected by the General Council, of which he is president. His office is held during life. He nominates an Assessor in the University Court, and he is empowered to appoint a Vice-Chancellor to discharge his office in his absence, so far as regards conferring Degrees, but in no other respect. The office of Vice-Chancellor has usually been, and is now, held by the Principal.

#### *Chancellors from the year 1642.*

- 1642-1904. (See *University Calendar*, 1911-12, and previous years.)  
 1904. William Thomson, Baron Kelvin of Largs, G.C.V.O., O.M.  
 1908. ARCHIBALD PHILIP PRIMROSE, EARL OF ROSEBERY AND MIDLOTHIAN, K.G., K.T.

---

### RECTOR.

The Rector is elected by the matriculated students of the University, divided into four nations.<sup>1</sup> In the case of an equality of nations the Chancellor had, in accordance with the Act of 1858, the casting vote, but under the Act of 1889 the Commissioners have ordained (Ord. No. 7) that the election

<sup>1</sup> The nations are constituted as follows :—

1. The Natio Glottiana consists of all matriculated students born within the County of Lanark.
2. The Natio Transforthana consists of all matriculated students born within any of the Counties of Orkney and Shetland, Caithness, Sutherland, Ross, Inverness, Cromarty, Nairn, Moray, Banff, Aberdeen, Perth, Forfar, Kincardine, Clackmannan, Fife, Kinross, Argyle, Stirling, and Dumbarton.
3. The Natio Rothseiana consists of all matriculated students born within any of the Counties of Bute, Renfrew, and Ayr.
4. The Natio Loudoniana consists of all matriculated students not included in any of the other nations.

shall be determined by the majority of votes of all the students voting whenever the votes of the nations shall be equally divided. The Universities Commission (1858) ordained that the election should take place upon the 15th November (the 16th, if the 15th fell on a Sunday); but by Ordinance No. 139 of the Universities Commission (1889), the election is to take place on such day in the month of October or November as may be fixed by the University Court after consultation with the Senate, but the date cannot be later than the second Saturday in November in any year. The term of office is three years. The Rector is the official President of the University Court.

*Rectors from the year 1773.*

1773-1890. (See *University Calendar*, 1911-12, and previous years.)

- 1890. Right Hon. Arthur James Balfour, M.P.
- 1893. Right Hon. Sir John Eldon Gorst, M.P.
- 1896. Right Hon. Joseph Chamberlain, M.P.
- 1899. The Earl of Rosebery, K.G., K.T.
- 1902. Right Hon. George Wyndham, M.P.
- 1905. Right Hon. Herbert H. Asquith, M.P.
- 1908. Right Hon. Baron Curzon, G.C.S.I., G.C.I.E., F.R.S.
- 1911. Right Hon. Augustine Birrell, K.C., M.P.
- 1914. M. RAYMOND POINCARÉ.

---

DEAN OF FACULTIES.

From the beginning there has been in the University an officer of dignity with the title of Dean of Faculty or Dean of Faculties. The duties of the office, as originally constituted, were to exercise a superintendence over the studies, and, in conjunction with the Masters, to judge of the qualifications of applicants for degrees. From the year 1772 it was the duty of the Dean, in concert with the Rector and the Minister of Glasgow, to examine the accounts of the administration of the Revenue, and to give advice to the Principal and Professors, when it was necessary for them to institute a judicial inquiry into the conduct of any of their number. By the Universities Act of 1858 the Dean of Faculties was a member of the University Court, but in the enumeration of the constituent members of the new University Court in the Act of 1889 the name does not occur. The election is made annually by the Senate at the close of the winter session.

*Deans from the year 1800.*

1800-1896. (See *University Calendar*, 1911-12, and previous years.)

1896. W. P. Dickson, D.D., LL.D.

1901. The Rt. Hon. Lord Kelvin, G.C.V.O.

1904. Sir James King, Bart., LL.D.

1911. WILLIAM STEWART, D.D., LL.D.

---

### PRINCIPAL.

The office of Principal or Principal Regent of the College was almost coeval with the foundation of the University, and was regulated anew by James VI., in 1577. It is in the appointment of the Crown. The Principal is President of the *Senatus Academicus*; and is also, *ex officio*, a member of the University Court.

*Principals from the year 1574.*

1574-1803. (See *University Calendar*, 1911-12, and previous years.)

1803. William Taylor, D.D.

1823. Duncan M'Farlan, D.D.

1858. Thomas Barclay, D.D.

1873. John Caird, D.D.

1898. Robert Herbert Story, D.D., LL.D.

1907. SIR DONALD MACALISTER, K.C.B., M.A., M.D.,  
D.C.L., LL.D., D.Sc., Ph.D.

---

### UNIVERSITY COURT.

The University Court consists of (a) the Rector, (b) the Principal, (c) the Lord Provost of Glasgow for the time being, (d) an Assessor nominated by the Chancellor, (e) an Assessor nominated by the Rector, (f) an Assessor nominated by the Lord Provost, Magistrates, and Town Council of Glasgow, (g) four Assessors elected by the General Council, (h) four Assessors elected by the *Senatus Academicus*. There is a further provision in the Act of 1889 for the representation of affiliated Colleges.

*Assessors since the University Court was constituted.*

#### CHANCELLOR.

1859-1904. (See *University Calendar*, 1911-12, and previous years.)

1904. Henry E. Gordon, B.A., of Aikenhead.

1908. WILLIAM LORIMER, LL.D.

## RECTOR.

- 1860-1890. (See *Calendar*, 1911-12, and previous years.)  
 1890. Lord Blythswood, LL.D.  
 1893. Matthew P. Fraser, LL.B.  
 1896. David Murray, LL.D.  
 1899. Alexander Ure, LL.B., M.P., Q.C.  
 1902. Allan F. Baird, Esq.  
 1905. William Lorimer, Esq.  
 1908. Sir John Ure Primrose, Bart., LL.D.  
 1911. Alexander B. Grant, M.V.O.  
 1914. JAMES H. NICOLL, M.B., C.M.

## LORD PROVOST, MAGISTRATES, AND TOWN COUNCIL OF GLASGOW.

1889. James Colquhoun, LL.D.  
 1899. Robert M. Mitchell, Esq.  
 1906. Alexander Murray, Esq.  
 1910. James M'Farlane, Esq.  
 1914. Robert Graham.  
 1918. J. BRUCE MURRAY.

## GENERAL COUNCIL.

- 1859-1889. (See *Calendar*, 1911-12, and previous years.)  
 1889. David Hannay, Esq.  
 1889. Hector C. Cameron, M.D.  
 1889. Sir John Neilson Cuthbertson.  
 1891. Rev. J. W. King, M.A., D.D.  
 1891. D. C. M'Vail, M.B.  
 1893. Hector C. Cameron, M.D.  
 1893. Sir John Neilson Cuthbertson.  
 1895. Rev. J. W. King, D.D.  
 1895. D. C. M'Vail, M.B.  
 1897. Hector C. Cameron, M.D.  
 1897. Sir John Neilson Cuthbertson, LL.D.  
 1899. D. C. M'Vail, M.B.  
 1899. Sir James Bell, Bart.  
 1900. William Robertson Copland, C.E.  
 1901. Sir John Neilson Cuthbertson, LL.D.  
 1901. William Robertson Copland, C.E.  
 1903. D. C. M'Vail, M.B.  
 1903. David Murray, LL.D.  
 1905. John Hutchison, LL.D.  
 1905. Sir William Robertson Copland, C.E., LL.D.  
 1905. John Hutchison, LL.D.  
 1907. John Smith, D.D.  
 1907. D. C. M'Vail, M.B.  
 1907. David Murray, LL.D.  
 1909. John Hutchison, LL.D.  
 1909. John Smith, D.D.  
 1911. Sir D. C. M'Vail, M.B.

- 1911. David Murray, LL.D.
- 1913. John Hutchison, LL.D.
- 1913. John Smith, D.D.
- 1915. Sir D. C. M'Vail, M.B.
- 1915. DAVID MURRAY, LL.D.
- 1917. JOHN HUTCHISON, LL.D.
- 1817. JOHN SMITH, D.D.
- 1918. GEORGE S. MIDDLETON, M.A., M.D., LL.D.

## SENATUS ACADEMICUS.

- 1859-1889. (See *Calendar*, 1911-12, and previous years.)
- 28th Nov., 1889. Professor Leishman, M.D.
  - 28th Nov., 1889. Sheriff Berry, LL.D.
  - 28th Nov., 1889. Professor Stewart, D.D.
  - 28th Nov., 1890. Professor Ramsay, LL.D.
  - 30th Nov., 1891. Professor Leishman, M.D.
  - 28th Nov., 1892. Sheriff Berry, LL.D.
  - 28th Nov., 1893. Professor Stewart, D.D.
  - 30th Nov., 1893. Professor Gairdner, M.D., LL.D.
  - 28th Nov., 1894. Professor Jack, LL.D.
  - 30th Nov., 1895. Sir W. T. Gairdner, K.C.B., M.D., LL.D.
  - 28th Nov., 1896. Sheriff Berry, LL.D.
  - 28th Nov., 1897. Professor Stewart, D.D.
  - 28th Nov., 1898. Professor Adamson, LL.D.
  - 30th Nov., 1899. Professor Young, M.D.
  - 28th Nov., 1900. Professor Moir, LL.D.
  - 28th Nov., 1901. Professor Stewart, D.D.
  - 6th Mar., 1902. Professor Raleigh, M.A.
  - 28th Nov., 1902. Professor Raleigh, M.A.
  - 15th Jan., 1903. Professor Muir, M.A., M.D.
  - 30th Nov., 1903. Professor Muir, M.A., M.D.
  - 13th Oct., 1904. Professor Jones, LL.D., Litt.D., F.B.A.
  - 28th Nov., 1904. Professor Gray, LL.D.
  - 28th Nov., 1905. Professor Stewart, D.D.
  - 28th Nov., 1906. Professor Jones, LL.D., Litt.D., F.B.A.
  - 30th Nov., 1907. Professor Sir Hector C. Cameron, M.D.
  - 28th Nov., 1908. Professor Gray, LL.D.
  - 28th Nov., 1909. Professor Bower, Sc.D., F.R.S.
  - 28th Nov., 1910. Professor Phillimore, M.A.
  - 30th Nov., 1911. Professor Muir, M.A., M.D., F.R.S.
  - 28th Nov., 1912. Professor Milligan, D.D.
  - 28th Nov., 1913. Professor Graham-Kerr, M.A., F.R.S.
  - 28th Nov., 1914. PROFESSOR PHILLIMORE, M.A.
  - 30th Nov., 1915. PROFESSOR NOËL PATON, M.D., F.R.S.
  - 30th Nov., 1916. PROFESSOR MILLIGAN, D.D.
  - 30th Nov., 1917. PROFESSOR GRAHAM-KERR, M.A., F.R.S.

The Rector's Assessor continues in office three years, and the other Assessors four years.

Under the Universities Act, 1858, the Court has power :

1. To review all decisions of the Senate, and to be a Court of Appeal from the *Senatus*, except as otherwise provided in the Universities Act.

2. To effect improvements in the internal arrangements of the University, after due communication with the Senate, and with the sanction of the Chancellor : provided that all such proposed improvements be submitted to the General Council for consideration.

3. To require due attention on the part of the Professors to the Regulations as to the mode of teaching and other duties imposed on the Professors.

4. To fix and regulate, from time to time, the fees in the several Classes.

5. Upon sufficient cause shown, and after due investigation, to censure any member of Senate, or to suspend him from office, and from the emoluments thereof, in whole or in part, for any period not exceeding one year, or to require him to retire on a retiring allowance, or to deprive him of office ; and during the suspension of any Professor, to make provision for the teaching of his class : provided always, that no such sentence of censure, deprivation, etc. shall have effect until approved by His Majesty in Council.

By Section 19 any of the Rules and Ordinances enacted by the Universities Commissioners under the Act could be altered or revoked by the University Court of the University to which they are applicable, but only with the written consent of the Chancellor, and with the approval of His Majesty in Council.

By the Universities (Scotland) Act, 1889, the University Court is a body corporate with perpetual succession and a common seal ; and all the property belonging to the University at the passing of the Act is now vested in that body.

By the same Act, the University Court, in addition to the powers conferred upon it by the Act of 1858, has power :

1. To administer the whole revenue and property of the University, including share of annual Government Grant, and bursary and other mortifications.

2. To review any decision of the Senate, appealed against by a member of Senate or other member of the University interested,<sup>1</sup> and to receive representations and reports from the Senate and the General Council.

3. To review on representation by any member of the University Court or by any member of Senate, any decision of the Senate in the exercise of its powers of regulating and superintending the teaching and discipline of the University ; but decisions in matters of discipline can be reviewed only on appeal by a member of Senate or by a member of the University directly affected.

4. To appoint professors to chairs in University patronage ; to appoint examiners and lecturers ; and to recognise for graduation purposes the teaching of any college or individual teacher, under any regulations laid down by the Commissioners, which regulations, after the expiration of the powers of the Commissioners, may from time to time be modified or altered by the Universities Committee.

5. To define on application by any member of the Senate the nature and limits of a professor's duties under his commission, subject to appeal to the Universities Committee.<sup>2</sup>

<sup>1</sup> An appeal against any decision of the Senate must be lodged with the Secretary of the University Court within fourteen days from the date of the issue of such decision. See Ordinance No. 5.

<sup>2</sup> Ordinance No. 144, which was issued on 29th March, 1895, and came into force immediately after the expiration of the powers of the Commissioners (1889), empowers the University Court at any time to revise and adjust the terms of the commission to be issued at the next vacancy of any chair, with regard to the number of lectures and the period of instruction.

6. To take proceedings against a principal or professor, University lecturer, assistant, recognised teacher or examiner, or any other person employed in teaching or examining.

7. To appoint from persons not being members of Senate one third of the members of any standing committee or committees charged, by ordinance of the Commissioners, with superintendence of University libraries or museums, and to review any decision of the Senate regarding the recommendations of such committee or committees.

8. To appoint committees of its own number, consisting of not less than five members, to report on any business entrusted to them or to carry out special instructions.

9. To elect the representative of the University on the General Medical Council, under the Medical Act, 1886.

10. After the expiration of the powers of the Commission to found new professorships with the approval of the Universities Committee.<sup>1</sup> After such expiration no new professorship shall be founded otherwise.

By Section 21 of the Act of 1889 the University Court has power to make new ordinances, with the approval of His Majesty in Council :

1. With respect to the appropriation of the sum allotted to the University by the Commissioners out of the annual grant.

2. Altering or revoking any of the ordinances affecting the University which have been or may be framed and passed under the Act of 1858 or the Act of 1889, and making new ordinances: provided that such ordinances, before being submitted to His Majesty for approval, have been communicated by the University Court to the Senate, the General Council, and the University Courts of the other Universities, and have been laid for twelve weeks before both Houses of Parliament.

The Court is entrusted with the patronage of several of the Professorships, appoints the additional Examiners for Degrees, and is a court of final appeal in any dispute which may arise in making up the Register of the General Council. Seven Members of the Court constitute a quorum. The Rector is President—in his absence, the Principal.

---

### SENATUS ACADEMICUS.

The Senatus Academicus consists of the Principal and the whole of the Professors, and is entrusted with the regulation and superintendence of the teaching and discipline of the University. It appoints two-thirds of the members of any standing committee or committees charged by ordinance of the Commissioners with the immediate superintendence of University libraries or museums. It receives in the first instance all reports by such committee or committees, and, subject to the

<sup>1</sup> Ordinance No. 144 enjoins the University Court before proceeding to the foundation of any new Professorship, to ascertain that there are sufficient means for its endowment, and also to take into consideration the contingent claim which the Professor may have to a pension.

review of the University Court, it may confirm, modify, or reject the recommendations in such reports. The Senate continues to possess and exercise the powers possessed by it before the passing of the Act of 1889 so far as they are not modified or altered by that Act or by the Act of 1858. The Principal, as President, has a deliberative and a casting vote. One third of the Senate constitute a quorum.

### FACULTIES.

The Universities Commissioners, by Ordinance No. 31, dated 5th June, 1893, as amended by the University Court Ordinances Nos. viii., xix., xxxi., xxxiv., xl. and lii., settled the constitution of the several Faculties in this University, as follows:—I. The Faculty of Arts consists of the Professors of the following subjects, viz., English Language and Literature, Humanity, Greek, Hebrew and Semitic Languages, Mathematics, Natural Philosophy, Logic and Rhetoric, Moral Philosophy, History, Scottish History and Literature, Political Economy.<sup>1</sup> II. The Faculty of Science consists of the Professors of the following subjects, viz., Mathematics, Natural Philosophy, Astronomy, Chemistry, Zoology, Geology, Botany, Anatomy, Physiology, Civil Engineering and Mechanics, Naval Architecture, Mining. III. The Faculty of Medicine consists of the Professors of the following subjects, viz., Natural Philosophy, Chemistry, Zoology, Botany, Anatomy, Physiology, Pathology, Materia Medica, Medicine, Surgery, Midwifery, Forensic Medicine, Pathology (St. Mungo—Notman—Chair), Obstetrics and Gynaecology (Muirhead Chair), Medicine (Muirhead Chair), Surgery (St. Mungo Chair), Ophthalmology (Tennent Chair). IV. The Faculty of Law consists of the Professors of the following subjects, viz., Law, Forensic Medicine, Conveyancing, Political Economy.<sup>1</sup> V. The Faculty of Divinity consists of the Professors of the following subjects, viz., Divinity, Divinity and Biblical Criticism, Ecclesiastical History, Hebrew and Semitic Languages. The University Court has power to transfer Chairs from one Faculty to another, and in the event of the foundation of new Chairs, to determine to which Faculty or Faculties such Chairs shall belong.

The Professors constituting each Faculty annually elect one of their number to be Dean of the Faculty.

<sup>1</sup> See Ordinance No. 149, Section 1.

## LECTURERS.

By Ordinance No. 17 of the Universities Commission (1889), the University Court is empowered to appoint, after consultation with the Senatus, Lecturers, whose teaching shall (unless otherwise determined by the University Court) qualify for graduation. They are appointed for a period not exceeding five years, but may be re-appointed. University Assistants or Demonstrators are eligible for appointment as Lecturers and *vice versa*; and both offices may be held at the same time by the same person.

Ordinance No. 65 provides that the classes of University Lecturers shall be conducted at the seat of the University, *i.e.* in the city of Glasgow and the immediate neighbourhood thereof, that no classes conducted by Lecturers elsewhere shall qualify for graduation in any Faculty, and that University Lecturers shall be in all respects subject to the discipline of the Senatus Academicus and of the University Court.

---

## BOARDS OF STUDIES.

By Ordinance No. 11 of the Universities Commission (1889), it is provided that the Senate shall institute Boards of Studies corresponding as nearly as may be to the departments of study for graduation in Arts. Each Board of Studies consists of the Principal, the Dean of the Faculty of Arts, and such other members of the Senate and Lecturers in the University as the Senate may from time to time select, a member of the Board being appointed Convener by the Senate. The functions of these Boards are defined in University Court Ordinance No. XXIII., sections xix. and xx.

Provision is made in Ordinance No. 42 for the institution of one or more Boards of Studies in each of the Faculties of Medicine and Science. In Medicine the constituent members of the Board or Boards are Professors in the Faculty of Medicine, together with such Professors in other Faculties whose subjects qualify for graduation in Medicine, and such Lecturers in the University as the Senate may from time to time select. The Board or Boards of Studies in Science are similarly constituted *mutatis mutandis*. The Dean of the Faculty of Medicine is Convener of each Board of Studies in Medicine; the Senate appoints the Convener of each Board of Studies in Science.

In the University Court Ordinance of 1913, by which the Royal Technical College, Glasgow, was affiliated to the University of Glasgow, provision is made for the institution of a Joint Board of Studies in Applied Science.

The University Court Ordinance for degrees in Education provides for the appointment of a Board of Studies in Education.

---

#### UNIVERSITY ASSISTANTS OR DEMONSTRATORS.

By Ordinance No. 17 of the Universities Commission (1889), the University Court is empowered to determine, after consultation with the Senatus, the number and grade of the Assistants, if any, to be assigned to each Professor. The appointments are made by the University Court on the recommendation of the Professors. The duties of each Assistant are defined by the Professor, with the approval of the Senate. The Assistants are recognized as Officers of the University, and are styled University Assistants or Demonstrators, as the University Court may determine.

The Arnott and Thomson Demonstratorship, founded in 1875, is attached to the Chair of Natural Philosophy; the Muirhead Demonstratorship, founded in 1877, to the Chair of Physiology; the Baxter Demonstratorship in Geology, founded in 1889, to the Chair of Geology; and the Weir Assistantship in *Materia Medica*, founded in 1914, to the Chair of *Materia Medica* and Therapeutics.

There is also an Assistantship to the Professor of Engineering, which was founded in 1876 by the bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow, and designated, in memory of her father, the Young Assistantship. The appointment is made by the University Court in conjunction with the Professor of Engineering.

---

#### EXAMINERS FOR DEGREES.

By Ordinance No. 13, Sections xiv.—xvi., of the Universities Commission (1889), the Examiners for graduation in Arts, Science, and Medicine respectively are the Professors whose subjects qualify for graduation, together with such Lecturers in the University and such additional Examiners, appointed by the University Court, as the Court may deem necessary. In the case of Medicine, the Court is required to make such

provisions as will ensure that every candidate shall be examined in each subject by at least two Examiners, one of whom shall not be a Professor or Lecturer in the University.

By Ordinances No. 39, Section vii., and No. 40, Section vii., of the Universities Commission (1889), the Examiners for graduation in Law are the Professors and Lecturers whose subjects qualify for graduation, and additional Examiners appointed by the University Court.

By Ordinance No. 63, Section ii., of the Universities Commission (1889), the Examiners for graduation in Divinity are the Professors of or Lecturers on the subjects included in the examinations, and two additional Examiners appointed by the University Court.

---

### GENERAL COUNCIL.

The General Council as constituted by the Scottish Universities Act, 1858 (21 and 22 Vict., chap. 83), by the Representation of the People (Scotland) Act, 1868 (31 and 32 Vict., chap. 48), and by the Universities Elections Amendment (Scotland) Act, 1881 (44 and 45 Vict., chap. 40), consists of the following *ex officio* Members, viz., the Chancellor, the Members of the University Court from and after their first election, and the Professors, and also of the following persons after registration, viz., all Masters of Arts of the University, and all persons on whom the University has, after examination, conferred the Degree of Doctor of Medicine, or Doctor of Science, or Bachelor of Divinity, or Bachelor of Laws, or Bachelor of Medicine, or Bachelor of Science, or any other Degree instituted since 13th July, 1868; and also all persons who, previous to the 2nd August, 1861, had, as matriculated students, given regular attendance on the course of study in this University for four complete sessions, or such regular attendance for three complete sessions in this University, and regular attendance for one such complete session in any other Scottish University, the attendance for at least two of such sessions having been on the course of study in the Faculty of Arts.

Members of the Council must have their names enrolled in a book kept for the purpose by the Registrar. The Register of the Council is made up annually in the month of December, for the year following, and includes the names of all members entered on the Registration Book on or before the 30th day of

November in each year. The Registration Fee, which is a payment for life, is 20s.

By section 16 of the Act 44 and 45 Vict., chap. 40, it is enacted that no person shall be allowed, after examination, to graduate at any of the Universities of Scotland until he shall have paid the Registration Fee; and it is further enacted that every person who has hitherto been, or who shall in the future become, *ex officio*, a member of the General Council of any of the Universities shall, on payment of the Registration Fee, be put and continued on the Register of Members of General Council of such University during his life, and shall be entitled to all the privileges of a Member of Council. The Act also provides that no person, subject to any legal incapacity, shall be entitled to vote at any parliamentary election, or exercise any other privilege as a member of the General Council.

The corrupt payment of any Registration Fee is punishable as bribery.

The Council meets twice every year—viz., on the last Wednesday of October, and the last Wednesday of April. In addition to these statutory meetings the Council may hold special meetings at the instance of the Chancellor, who shall convene such meetings on a requisition from a quorum of members, and the Council may adjourn any meeting, and may appoint committees to investigate into and report upon any matter remitted to them, or to carry out instructions given to them by the Council. The quorum of the General Council has been fixed by the Universities Commissioners at ten for every complete thousand or fraction of a thousand on the Register, so that for the present year one hundred members are requisite to constitute a quorum, there being 9307 names on the Register, but this provision does not apply to the statutory half-yearly meetings. It is competent to the Council to take into consideration all questions affecting the well-being and prosperity of the University, and to make representations from time to time to the University Court, who shall return to the Council their deliverances thereon. The annual reports as to the statistics of attendance and as to the finances of the University, made by the University Court to the Secretary for Scotland, are to be laid by him before the General Council. To it are also to be communicated all new ordinances, or changes of existing ordinances, which may be proposed by the University Court.

The Chancellor and four of the Assessors in the University Court are elected by the Council. The manner in which these officers are elected is regulated by Ordinance No. 9 of the Universities Commission (1889). The President of the Council is the Chancellor; whom failing, the Rector; whom failing, the Principal; whom failing, the Chancellor's Assessor; whom failing, the Rector's Assessor. In the absence of all these officials, a Chairman shall be elected by the meeting; but in the election of Assessors the members of Senate may not take part.

Previous to 1918 the General Councils of the Universities of Glasgow and Aberdeen jointly returned a representative to Parliament; and the Vice-Chancellor of Glasgow University was the returning officer. This arrangement has been altered by the provisions of the Representation of the People Act, 1918.

*Members of Parliament for the Universities of Glasgow and Aberdeen.*

1868. Right Hon. James Moncrieff, LL.D., Lord Advocate.

1869. Right Hon. Edward S. Gordon, LL.D., Dean of the Faculty of Advocates.

1876. Right Hon. William Watson, LL.D., Lord Advocate.

1880. Right Hon. James Alexander Campbell, LL.D.

1906. Sir Henry Craik, K.C.B., LL.D.

1910. SIR HENRY CRAIK, K.C.B., LL.D.

### STUDENTS' REPRESENTATIVE COUNCIL.

The constitution and functions of the Students' Representative Council are regulated by Ordinance No. 60, the provisions of which are as follows:—

I. The Students' Representative Council in each University shall submit to the University Court for approval the regulations under which it has been formed or now exists, and these regulations as approved, or with such alterations as may from time to time be approved by the University Court, shall form the constitution of the Students' Representative Council, and shall, subject to the provisions of this Ordinance, determine the functions thereof, and the mode of election thereto.

II. After the University Court has approved of the constitution of a Students' Representative Council in any University, alterations in the said constitution shall be of no effect unless and until they shall receive the approval of the University Court

III. (1) The Students' Representative Council shall be entitled to petition the Senatus Academicus with regard to any matter affecting the teaching and discipline of the University, and the Senatus Academicus shall dispose of the matter of the petition, or shall, if so prayed, forward any such petition to the University Court, with such observations as it may think fit to make thereon.

(2) The Students' Representative Council shall be entitled to petition the University Court with regard to any matter affecting the students other than those falling under the immediately preceding sub-section.

(3) Nothing contained in this section shall be held to pre-judice any right of appeal which may be competent under section 6, sub-section 2, of the Universities Act, 1889, nor the powers and jurisdiction of the Senatus Academicus with regard to the teaching and discipline of the University.

The Council at present consists of representatives (both men and women) from the different Faculties in the University, and its aims are (1) to represent the Students in matters affecting their interests; (2) to afford a recognized means of communication between the Students and the University authorities; (3) to promote social and academic unity among the Students. A Union Committee appointed by the Council completed in Session 1889-90 the arrangements for opening the "Glasgow University Union." The Council has various Sub-Committees—an Inter-Universities Committee, a Magazine Committee, which conducts during the session the "Glasgow University Magazine" (published weekly), an Amusements Committee, a Lodgings Committee, a Chapel Committee, and a Book Exchange Committee.

*Presidents of the Students' Representative Council.*

1885-86 to 1899-1900. (See *University Calendar*, 1912-13, and previous years.)

1900-1901. John Muir, B.Sc.	1910-11. Robert Gibson, M.A., B.Sc.
1901-2. E. R. Mitchell, M.A.	1911-12. John Boyd, M.A.
1902-3. D. A. Dick.	1912-13. Ian D. Grant.
1903-4. G. J. Spruill, LL.B.	1913-14. R. H. Williamson.
1904-5. F. W. Saunders, B.D.	1914-15. Archibald Rae.
1905-6. R. H. Napier, M.A.	1915-16. Archibald Rae, M.A.
1906-7. J. C. Watson.	1916-17. } A. S. STRACHAN, M.A., 1917-18. } B.Sc.
1907-8. Robert E. Lee, M.A.	
1908-9. James B. Galbraith.	
1909-10. James Hendry, M.A., B.Sc.	

## STUDENTS.

Number of Students in the several Faculties :

							WHOLE SESSION, 1917-18.	SUMMER, 1918.	TOTAL.
MEN.									
In Arts, - - - - -	-	-	-	-	-	-	138	—	138
Science, - - - - -	-	-	-	-	-	-	128	14	142
Theology, - - - - -	-	-	-	-	-	-	9	—	9
Medicine, - - - - -	-	-	-	-	-	-	490	222	712
Law, - - - - -	-	-	-	-	-	-	23	4	27
Arts and Science, - - - - -	-	-	-	-	-	-	8	—	8
Arts and Medicine, - - - - -	-	-	-	-	-	-	2	1	3
Science and Medicine, - - - - -	-	-	-	-	-	-	5	1	6
Single class enrolment, - - - - -	-	-	-	-	-	-	4	—	4
							807 <sup>1</sup>	242	1049
WOMEN.									
In Arts, - - - - -	-	-	-	-	-	-	385	—	385
Science, - - - - -	-	-	-	-	-	-	43	—	43
Medicine, - - - - -	-	-	-	-	-	-	368	46	414
Law, - - - - -	-	-	-	-	-	-	3	—	3
Arts and Science, - - - - -	-	-	-	-	-	-	6	—	6
Arts and Medicine, - - - - -	-	-	-	-	-	-	2	—	2
Science and Medicine, - - - - -	-	-	-	-	-	-	2	—	2
Single class enrolment, - - - - -	-	-	-	-	-	-	17	—	17
							826	46	872
Total, - - - - -							1633	288	1921

Ordinance No. 50 of the Universities Commission (1889) requires that each student shall pay a matriculation fee of One Guinea, at the commencement of each winter session, for the whole academical year then next ensuing; and any student desirous of attending a class or classes during a summer session, without having matriculated at the commencement of the immediately preceding winter session, shall in respect of such summer session pay a matriculation fee of half a guinea.

Ordinance No. 147 contains the following regulation

<sup>1</sup> This number was appreciably diminished during the session by the withdrawal of students going on Military Service.

with regard to matriculated students:—No person shall be deemed to be a matriculated student in any University or shall enjoy any of the privileges of a matriculated student unless, in addition to paying the matriculation fee, he is enrolled as a student in attendance in one or more classes in the University [or on one or more approved courses in a college affiliated thereto],<sup>1</sup> and has paid the fees entitling him to such attendance: provided that nothing herein contained shall affect the right of the University Court to exact a fee in lieu of and not exceeding the matriculation fee from any candidate for any examination or for graduation, not being at the time a matriculated student, in addition to the fee payable for such examination or graduation.

Ordinance No. 50 empowers the University Court in special circumstances to permit persons who have not matriculated to attend any single class in any Faculty, on payment of an Entrance Fee of Five Shillings in addition to the authorized class fee, subject to the following provisions, viz:—(1) That attendance on any class without payment of the matriculation fee shall not qualify for graduation in any Faculty, (2) that persons who have not paid the matriculation fee shall not be entitled to a certificate of attendance on any class, and (3) that payment of such entrance fee shall not confer any University privilege other than the right of attendance on such class.

By Ordinance No. 18 of the Universities Commission (1889) the University Court was empowered to admit women to graduation, and to provide for their instruction, either by admitting them to the ordinary classes, or by instituting separate classes for their instruction. Under this ordinance women were for the first time admitted as matriculated students of this University in Session 1892-93.

Medical students have access, for the usual attendance in the wards and on the Clinical Lectures, to the Royal Infirmary situated in the Eastern part of the city, and to the Western Infirmary in the immediate vicinity of the University. In the Royal Infirmary provision is made for the clinical instruction of women.

A distinction is made between Public and Private students. The former are required to undergo examinations, and to

<sup>1</sup> See University Court Ordinance No. XXXIX. (Glasgow No. 12).

read or perform exercises on the subjects treated of in the lectures,—and they only are allowed to reckon their sessions of study as a qualification for proceeding to degrees in the several Faculties.

Men students matriculate at Gilmorehill and women students at Queen Margaret College. Students are entitled, after matriculation, to the privilege of admission to the University Library and to the Hunterian Museum; after matriculation and class enrolment, they are entitled to vote for the Lord Rector.

In former times the students were divided into Togati and Non-Togati—the students of the Humanity, Greek, Logic, Ethics, and Natural Philosophy classes being Togati or gown students, from being required to wear the ancient academical robe—a scarlet gown. Now all students are entitled to wear the gown.

---

#### UNIVERSITY CHAPEL.

The University Chapel is under the management of a Committee of Senate of which the Principal is Convener.

Public Worship is celebrated on certain Sundays during the Session at 3 P.M., in the Bute Hall. The services are conducted by graduates of this University and other clergymen of various denominations.

---

#### GYMNASIUM.

This building was erected by public subscription, and fitted according to the most improved models, under the superintendence of the late Mr. Maclaren of Oxford, at a total cost of £2600, and was opened in January, 1872.

Gymnastic, Physical Culture, Boxing, and Fencing classes are held during the session, and the American game of Basket Ball has been successfully introduced. Mr. James Hughes conducts the classes in Gymnastics and Fencing. Gymnastic classes meet on three days a week, to be arranged, from 10 A.M. to 1 P.M., and from 4.30 P.M. to 5.30 P.M. Each class meets three times a week, and students may join any class which is convenient for them.

Gentlemen not connected with the University are admitted to the use of the Gymnasium, and a special evening class is formed for their benefit, which meets on Mondays and Thursdays from 8 P.M. till 10 P.M. Students may join this class, if they wish.

Fees.—Gymnastics. *For all Students:* One month, 5s.; Two months, 8s. 6d.; Three months, 12s.; Six months, 20s. *For Non-Students:* the Quarter (*i.e.* twice a-week for three months), 15s.; whole season (seven months), 35s. Fencing and Boxing: 12s. for a course of twelve lessons. Special arrangements are made for the summer session.

The Oxford Silver Medal, presented annually by the late Mr. Maclaren, for competition among the students, is continued by the Gymnasium; but, owing to the war, no competition was held in 1917.

A Badge presented by the Ladies of the University is awarded to the runner-up in the medal competition; no award was made in 1917.

In 1899 Professor Ramsay presented to the Gymnasium a Silver Challenge Cup for annual competition among teams representing the four Nations into which students are divided in voting at the Rectorial elections. It was decided, on account of the war, to hold no competition in 1918.

Gymnastic classes for members of Queen Margaret College are also arranged.

The Gymnasium is managed by a joint-committee of professors and students.

*Hon. President,* Professor F. O. Bower, Sc.D., F.R.S.

*Hon. Treasurer,* Alan E. Clapperton, B.L., LL.D., 91 West Regent Street, Glasgow.

*Hon. Secretary,* (vacant).

## COMMITTEE FOR EXTERNAL EXAMINATIONS AND APPOINTMENTS.

[*Note.*—Whilst appointments to the different public services noted below are largely suspended during the war, there is a considerable demand in commercial and similar spheres for men discharged from or ineligible for the fighting forces. Any such men should see the Secretary of the Committee, or send him full particulars of their career.]

This Committee is appointed for the double purpose of spreading information among students regarding public examinations and appointments outside the University and of acting as a nominating body in the case of candidates for appointments where such preliminary nomination is required. All candidates should, as early as possible in their University Course, have an interview with the Convener or Secretary of the Committee. Women students and graduates should apply to Miss Melville, Queen Margaret College. The following information about some of the chief examinations and appointments for which a University training is suitable must not be regarded as complete, but may be useful as indicating the scope of the Committee's work.

*Clerkships, Class I., in the Home Civil Service :*

*Civil Service of India :*

*Eastern Cadetships (Ceylon, Hong Kong, Straits Settlements)  
in the Colonial Service.*

For the above Services new schemes of examination are at present under consideration.

*Civil Service of Egypt and the Soudan.*

Names are forwarded in the first instance by the Appointments Boards of Universities, and candidates are selected from such nominees by a Committee appointed by the Government of Egypt. The necessary qualifications for nomination are a good degree, physical fitness, and (specially important) proved capacity of leadership in such ways as are open to school-boys or undergraduates. Candidates should be over 22 and under 25 on Oct. 1. Under 29 for men who have been on military service,

*Indian Education Department.*

Professorships in Government Colleges, Inspectorships of Schools, Headmasterships in certain Secondary Schools, Superintendentships of Schools of Arts.

The limits of age are 23 to 30. The qualifications are an Honours degree, a University diploma, experience as a teacher, knowledge of special subjects, bodily activity and proficiency in games.

*Police Service of India, Hong Kong, Straits Settlements, and Federated Malay States.*

A number of posts in the Indian Service are offered for competition every year: posts in Further India are filled up as vacancies occur. When necessary, one examination is held for both services, and candidates may sit it either in London, in which case the fee is £2, or in Edinburgh, in which case the fee is £3. Names must be entered by May 1st on a prescribed form to be obtained from the Secretary, Judicial and Public Department, India Office, London. The examination is held in June or July. The limits of age for candidates are 19-21. There is a choice of nine subjects (Mathematics counting as two), all bearing the same maximum of marks (2000). Of these English, English History and Geography, Elementary Mathematics, and French or German, are compulsory. Any two other subjects may be offered. Freehand Drawing, however, is an optional additional subject, not included in the nine, and carrying 400 marks. The standard is that of Honours or of a good all-round Ordinary degree.

*Colonial Appointments.*

There are a large number of posts in Colonies administered by the Colonial Office, to which appointments are made directly by the Secretary of State for the Colonies. There is a steady demand for young qualified medical men: there is not much opening for lawyers or chartered accountants: a few appointments are made every year to administrative posts of various kinds. The chief openings are in Nigeria, East Africa, and Uganda, but vacancies also occur in other places. Candidates must be over 24 years of age, and application must be made to the Secretary of State for the Colonies, Downing Street, London, whose Private Secretary will supply a form to be

filled up. It is essential that anyone desiring a Colonial post should interview the Private Secretary at the earliest opportunity. There is no examination; appointments are made when vacancies occur, so that applicants will be obliged to wait at least six months. The official form, when filled up, should be sent in through the Convener of the University Appointments Committee.

*Examinerships in the Exchequer and Audit Departments:*

*Surveyorships of Taxes:*

*Junior Appointments in the Supply and Accounting Departments of the Admiralty:*

*Second-class Assistant Accountants in the Army Accounts Department:*

*Junior Appointments in the Royal Ordnance Factories.*

These are all combined, so far as there are vacancies, in one examination. The limits of age are 18 and 19½ on May 1 or November 1. There is an entrance fee of £3. The only compulsory subjects are English and Elementary Mathematics. There are a number of other subjects in which papers are set on two standards marked at 2000 and 4000 respectively. The maximum number of marks which can be obtained from the subjects chosen must not exceed 14,000. A candidate must include one language among his chosen subjects. The standard is that of a fair Ordinary degree.

Other services for which a good degree (M.A. or B.Sc.) may be a suitable preparation are Student Interpreterships in the Ottoman Dominions, Persia, Greece, and Morocco, and in China, Japan, and Siam; the Consular Service; Indian Forest Service; Assistantship in special departments in the British Museum; Assistant Examinerships in the Patent Office; Junior Inspectorships in the Board of Education, Whitehall; Administrative posts in Crown Colonies.

For graduates with a degree in Engineering there are openings as Assistant Engineers in the Indian Public Works, in the Admiralty, and in the General Post Office.

For graduates with a Medical degree there are the Indian Medical Service, medical appointments in the Colonies and

Protectorates, the Royal Army Medical Corps, and the Medical Department of the Royal Navy.

In addition to these public appointments, the Committee receives intimation of various tutorial and school posts, as well as other forms of temporary work open to graduates and undergraduates. A number of commercial firms are also willing to take good men after a college course, and offer attractive prospects.

The Committee consists of the Principal, Professors Bower, Sir J. H. Biles, Sir Henry Jones, Muir, Phillimore, Gray, Medley, Latta, Dixon, Gibson, Hunter, Munro Kerr, Rait, Cormack, Scott, The Lord Provost, Sir William Lorimer, Sir Robert Graham, Colonel A. B. Grant, Dr. R. A. Duff, Miss Melville, B.D., and Miss May, M.A.—Professor Medley, Convener; Mr. A. H. Charteris, Secretary; Dr. R. A. Duff, Acting Secretary *pro tem*.

## II.—TABLE OF UNIVERSITY FEES.

## I.—MATRICULATION FEES [Ord. No. 50, Sec. i.].

At the commencement of each Academical Year, which extends from 1st October to 30th September, and includes both Winter and Summer Sessions, ...	£1	1	0
At the commencement of each Summer Session, if the Student has not matriculated for the Academical Year then current, ... ..	0	10	6

## II.—ENTRANCE FEES [Ord. No. 50, Sec. ii.].

On admission of persons who are not matriculated Students to any single class, <i>if permitted by the University Court in special circumstances</i> , ... ..	0	5	0
--	---	---	---

N.B.—Attendance under this Regulation does not qualify for Graduation, and no Certificate for such attendance is given. The Entrance Fee confers no University privileges other than the right of attendance above mentioned.

## III.—ENROLMENT FEES [Ord. No. 12, Sec. v., Ord. No. 14, Sec. viii. 5, Ord. No. 23, Sec. vi., Ord. No. 134, Sec. v., U.C. Ord. No. xxxi., Sec. ix. 5].

At the commencement of each year of attendance on the lectures of Extra-Academical Teachers in Glasgow, whose Lectures are recognised for Graduation in Medicine or Science, ... ..	1	1	0
---	---	---	---

## IV.—EXAMINATION FEES.

Preliminary Examinations in Arts, Science, or Medicine —[Ord. No. 13, Sec. xii.].

On each entry for Examination, ... ..	0	10	6
---------------------------------------	---	----	---

Degree of Master of Arts (M.A.)—[Ord. No. 50, Sec. iii.].

The Fee for this Degree is ... ..	5	5	0
-----------------------------------	---	---	---

Payable £1 ls. on entering for Examination in each subject till £5 5s. are paid.

The Fee for Examination of a Master of Arts in any subject named in Section viii. of U.C. Ord.

No. xxiii. is ... ..	1	1	0
----------------------	---	---	---

The Examination Fee for a Certificate of Proficiency under U.C. Ord. No. xxiii., Sec. xiii. D., is ...

2	2	0
---	---	---

Degree of Bachelor of Science (B.Sc.)—[Ord. No. 50, Secs. iv.–vii.].

The Fee for this Degree is ... ..	6	6	0
-----------------------------------	---	---	---

Payable £1 ls. on entering for Examination in each subject till £6 6s. are paid.

The Fee for Examination of a Bachelor of Science (Pure Science), in any additional subject is ...

3	3	0
---	---	---

The Fee for Examination of a Bachelor of Science (Engineering) in any additional subject is ...

1	1	0
---	---	---

Certificate in Engineering Science—

On entering for last subject of Examination, ...	1	1	0
--	---	---	---

Degree of Doctor of Letters (D.Litt.)—[U.C. Ord. No. xxvi., Sec. xiv.]			
On lodging Thesis, ... ..	£10	10	0
Degree of Doctor of Philosophy (D.Phil.)—[U.C. Ord. No. xxvi., Sec. xiii.]			
On lodging Thesis, ... ..	10	10	0
Degree of Doctor of Science (D.Sc.)—[U.C. Ord. No. xxvi., Sec. xii.]			
On lodging Thesis, ... ..	10	10	0
Degrees of Bachelor of Medicine (M.B.), and Bachelor of Surgery (Ch.B.)—[Ord. No. 14, Sec. xxiii. and U.C. Ord. No. xxxi., Sec. xxiv.]			
On entering for First Professional Examination, ...	6	6	0
„ Second „ „ „ „	6	6	0
„ Third „ „ „ „	5	5	0
„ Fourth „ „ „ „	5	5	0
Degree of Doctor of Medicine (M.D.)—Old Regulations—			
On lodging Thesis, ... ..	5	5	0
Degree of Doctor of Medicine (M.D.)—[Ord. No. 14, Sec. xxiii.]			
On entering for Examination or lodging Thesis, ...	10	10	0
Degree of Master of Surgery (Ch.M.)—[Ord. No. 14, Sec. xxiii.]			
On entering for Examination or lodging Thesis, ...	10	10	0
Degree of Doctor of Medicine (M.D.)—[U.C. Ord. No. xxxi., Sec. xxiv.]			
On entering for Examination or lodging Thesis, ...	15	15	0
Degree of Master of Surgery (Ch.M.)—[U.C. Ord. No. xxxi., Sec. xxiv.]			
On entering for Examination or lodging Thesis, ...	15	15	0
Degree of Bachelor of Laws (LL.B.)—[Ord. No. 50, Sec. xii.]			
The Fee for this Degree is ... ..	6	6	0
Payable £1 ls. on entering for each subject till £6 6s. are paid.			
Degree of Bachelor of Law (B.L.)—[Ord. No. 50, Sec. xi.]			
The Fee for this Degree is ... ..	5	5	0
Payable £1 ls. on entering for each subject till £5 5s. are paid.			
Degree of Bachelor of Divinity (B.D.)—[Ord. No. 50, Sec. xiii.]			
On entering for Examination in First Department, ...	2	12	6
„ „ Second „ „	2	12	6

V.—CLASS FEES (*see* page 66).

VI.—LIBRARY FEES [Ord. No. 64, Secs. x.-xiii.].

Each Member of the General Council, each year (commencing 1st October) in which he wishes use of Library, ... ..	0	10	6
Or,			
This may be compounded for by a single payment of ...	5	5	0
Every Matriculated Student enrolled in a Class, and every Extra-Mural Student, who wishes use of Library, a <i>deposit</i> of ... ..	1	0	0
Special Readers—each year in which the privilege is granted, ... ..	0	10	6

VII.—REGISTRATION FEE

All Candidates proceeding to Graduation after Examination who are not already members of the General Council are required by the Act 44 and 45 Vict., Ch. 40, to pay the Registration Fee, with a view to their names being enrolled in the General Council. The

Fee is ... .. £1 0 0

III.—WOMEN'S DEPARTMENT.

QUEEN MARGARET COLLEGE.

In February, 1892, the Universities Commission issued an Ordinance (No. 18), empowering the Scottish University Courts to make provision within the Universities for the instruction of women, either by admitting them to the ordinary classes, or by instituting separate classes for their instruction. The Council of Queen Margaret College, having considered the provisions of this ordinance, came to the conclusion that the purpose for which the College had been instituted would be best served by making over their work to the University of Glasgow. They accordingly, with the concurrence of the late Mrs. Elder, the proprietrix of the buildings and grounds hitherto occupied by the College, offered to transfer to the University Court these buildings and grounds, and the endowments (present and prospective), on condition that these should be devoted to the establishment and maintenance of University Classes for women exclusively. The University Court, after consultation with the Senate, having resolved to exercise the power conferred by Ordinance No. 18, and to provide University instruction for women mainly by the institution of separate classes, agreed to accept the offer made by Queen Margaret College, and remitted to a Committee to take the necessary steps for completing the transfer. In virtue of this arrangement the teachers in Queen Margaret College were appointed by the University Court, and the students in session 1892-3 were admitted matriculated students of the University. In 1893 the College was dissolved, and the funds were handed over to the University Court, but the name "Queen Margaret College" survives as designating in particular the part of the University buildings and grounds which is devoted exclusively to the education of women, and in general the Women's Department of the University of Glasgow.

ALL women students are required to matriculate and to pay their Class Fees and Examination Fees at Queen Margaret College.

The classes which meet in the buildings of Queen Margaret College are specially marked in the following table.

#### IV.—SEPARATE FACULTIES AND CLASSES.

##### A. ARTS.

In the Faculty of Arts the twenty-five teaching weeks of the session are distributed over three terms as follows :

First term begins on 14th October, and ends on 20th December, 1918.

Second " " 7th January, " " 20th March, 1919.

Third " " 23rd April, " " 23rd May, 1919.

##### B. OTHER FACULTIES.

In the Faculties of Science, Medicine, and Law, the Session falls into two parts, a Winter and a Summer Session ; in the Faculty of Theology the teaching meanwhile does not extend beyond the Winter Session.

The Winter Session begins on 14th Oct., 1918, and ends on 20th Mar., 1919.

The Summer " " 23rd Apr., 1919, " " 2nd July, 1919.

#### C. CLASS-HOURS AND CLASS-FEES.

##### I.—ARTS.<sup>1</sup>

Classes.	Hours.	Class Fees.	
Latin, . . . . .	9 a.m., . . . . .	£4 4	} PROF. PHILLIMORE.
—— Q.M.C., . . . . .	10.45 a.m. or 3 p.m., . . . . .	4 4	
—— Intermediate, . . . . .	1 p.m., . . . . .	4 4	
—— Honours, . . . . .	11 a.m., . . . . .	4 4	
—— Prose, . . . . .	(One day weekly in each class),	1 1 <sup>2</sup>	
—— Prose, Q.M.C., . . . . .	(One day weekly in each class),	1 1 <sup>2</sup>	} Mr. S. N. Miller.
* Roman Britain, . . . . .	9 a.m., one day weekly,	1 1 <sup>2</sup>	
* Roman History (Intermediate and Honours),	1 p.m.,	4 4	
Greek, . . . . .	8 a.m., . . . . .	4 4	} PROF. DAVIES.
—— Intermediate, . . . . .	12 noon, . . . . .	4 4	
—— Honours, . . . . .	10 a.m., M., W., F., . . . . .	4 4	
—— Prose, . . . . .	(once weekly), . . . . .	1 1 <sup>3</sup>	

<sup>1</sup> Students paying individual fees in Arts are allowed to take the same Class a second time on payment of half the usual fee.

<sup>2</sup> Payable only by Students not enrolled for "Latin" (£4 4s.).

<sup>3</sup> Payable only by Students not enrolled for "Greek" (£4 4s.).

The Classes marked Q.M.C. meet in the buildings of Queen Margaret College.

NOTICE AS TO PRACTICAL CLASSES.—Students are required to begin practical work at the commencement of each term. Unless by special leave, no student can be admitted to a practical class who does not present himself within the first week.

Inclusive Fees in Arts, Science, and Law—See end of volume.

\* These and other classes may have to be suspended during the Session 1918-19.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Hellenistic Greek (alternative to Greek Intermediate),</i>	(see p. 90), . . .	£4 4	Mr. W. Rennie.
* <i>Non-qualifying Greek,</i>	(see p. 91), . . .	4 4	Mr. A. W. Gomme.
* <i>Greek History (alternative to Greek Intermediate),</i>	Hours to be arranged, . . .	4 4	Mr. J. B. Hutton.
<i>English,</i>	11 a.m., . . .	4 4	} PROF. DIXON.
— <i>Intermediate,</i>	11 a.m., . . .	4 4 <sup>1</sup>	
— <i>Honours,</i>	12 noon (see p. 93), . . .	4 4	
— <i>Q.M.C.,</i>	3 p.m., . . .	4 4	} Mr. J. B. Black.
* <i>British History, Honours,</i>	9 a.m., . . .	4 4	
<i>French,</i>	12 noon, . . .	4 4	} M. Charles Martin.
— <i>Q.M.C.,</i>	9.45 a.m., . . .	4 4	
— <i>Intermediate,</i>	10 a.m., . . .	4 4	
— <i>Honours,</i>	10 a.m., . . .	4 4	} Dr. H. Smith.
<i>German,</i>	10 a.m., . . .	4 4	
— <i>Q.M.C.,</i>	11.15 a.m., . . .	4 4	
— <i>Intermediate,</i>	9 a.m., . . .	4 4	
— <i>Honours,</i>	9 a.m., . . .	4 4	
— <i>Elementary,</i>	(see p. 98), . . .	2 2	
<i>English Language, Honours or Higher Ordinary</i>	(see p. 93), . . .	4 4	Mr. R. Girvan.
<i>Italian,</i>	2 p.m., . . .	4 4	} Dr. E. Grillo.
— <i>Honours,</i>	(see p. 99), . . .	4 4	
— <i>for Honours in English</i> (see p. 99), . . .		4 4	
— <i>Elementary,</i>	(see p. 99), . . .	2 2	} Mr. H. G. Brennan.
<i>Russian,</i>	(see p. 102), . . .	4 4	
— <i>Elementary,</i>	(see p. 102), . . .	2 2	
<i>Hebrew, Junior (Oct.-Mar.),</i>	10 a.m., . . .	3 3	} PROF. STEVENSON.
— <i>Senior (Oct.-Mar.),</i>	11 a.m. (see p. 191), . . .	4 4	
— <i>Honours,</i>	9 a.m., three days weekly, . . .	4 4	
— (Half Course), . . .		2 2	
* <i>Syriac (Oct.-Mar.),</i>	(see p. 192), . . .	2 2 <sup>2</sup>	} Vacant.
* <i>Hebrew, Elementary (Oct.-Dec.),</i> (see p. 191), . . .		2 2	
<i>Arabic, Elementary,</i>	(see p. 192), . . .	2 2 <sup>2</sup>	} Mr. T. H. Weir.
— <i>Ord. or Hons., (Oct.-Mar.),</i> (see p. 192), . . .		4 4	
— (Half Course), (see p. 192), . . .		2 2	
<i>Celtic,</i>	4 p.m., . . .	4 4	} Dr. Calder.
— <i>Intermediate,</i>	(see p. 101), . . .	4 4	
— <i>Honours,</i>	(see p. 102), . . .	4 4	
— <i>Elementary</i>	(see p. 102), . . .	2 2	} PROF. LATTA.
<i>Logic and Metaphysics,</i>	9 a.m., . . .	4 4	
— <i>Higher Ordinary,</i>	10 a.m., . . .	4 4	
— <i>Honours,</i>	11 a.m., . . .	4 4	} Mr. W. Anderson.
<i>Logic, Q.M.C.,</i>	12.15 p.m., . . .	4 4	
<i>Experimental Psychology,</i>	10 a.m., . . .	4 4	} Dr. H. J. Watt.
— <i>Advanced,</i> (see p. 104), . . .		2 2	

<sup>1</sup> Students who desire to take in the same session this Intermediate Class and the Honours Language Class in English, may enrol for the latter class at a fee of £2 2s.

<sup>2</sup> For Students who are attending, or have attended, the Hebrew Class, the Fee is £1 1s.

The classes marked Q.M.C. meet in the buildings of Queen Margaret College.

NOTICE AS TO PRACTICAL CLASSES.—Students are required to begin practical work at the commencement of each term. Unless by special leave, no student can be admitted to a practical class who does not present himself within the first week.

Inclusive Fees in Arts, Science, and Law—See end of volume.

\* These and other classes may have to be suspended during the Session 1918-19.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Moral Philosophy,</i>	8 a.m.,	£4 4	} PROF. SIR HENRY JONES.
<i>Intermediate,</i>	(see p. 105),	4 4	
<i>Honours,</i>	12 noon,	4 4	
<i>Political Philosophy,</i>	4 p.m. (see p. 106),	3 3 <sup>1</sup>	} Dr. R. A. Duff.
<i>Political Economy,</i>	2 p.m.,	4 4	
<i>Honours,</i>	3 p.m.,	4 4	
* <i>Social Economics,</i>	4 p.m. (see p. 107),	3 3 <sup>1</sup>	} Mr. J. H. Jones.
* <i>Economic History,</i>	(see p. 108),	3 3	
<i>Education,</i>	4.15 p.m.,	4 4	
<i>Mathematics,</i>	8 a.m., or 12 noon,	4 4	} PROF. GIBSON.
<i>Q.M.C.,</i>	8.45 a.m.,	4 4	
<i>Q.M.C.,</i>	2 p.m.,	4 4	
<i>Higher Ordinary,</i>	10 a.m.,	4 4	
<i>Honours (Intermed.),</i>	10 a.m.,	4 4	
<i>Honours (Advanced),</i>	9 a.m.,	4 4	} PROF. GRAY.
<i>Natural Philosophy,</i>	9 a.m.,	4 4	
<i>Higher Class C.,</i>	12 noon, Mon., Tu., Th.,	4 4	
<i>Higher Class A.,</i>	11 a.m., Mon.; and 12 noon, Wed., Fri.,	4 4	
<i>Higher Classes A. and C. in one Session,</i>		5 5	
<i>Physical Laboratory, Whole Session</i> (6 hours weekly),		6 6	} PROF. BECKER.
<i>Half</i> „ (6 hours weekly),		3 3 <sup>2</sup>	
„ (10 hours weekly),		4 4 <sup>2</sup>	
* <i>Astronomy, Class A.,</i>	{ 3 p.m., Tues., Th., and Fri. (see p. 122),	2 2	} PROF. BECKER.
* <i>Class B.,</i>	{ 3 p.m., Mon., Wed., and Fri. (see p. 122)	2 2	
* <i>Classes A. and B. in same Session,</i>		4 4	
<i>Chemistry,</i>	10 a.m.,	4 4	} PROF. —
<i>Chemical Laboratory,</i>	10 a.m. to 4 p.m.,	10 10	
<i>(Half Session),</i>		5 5 <sup>2</sup>	
<i>Chemistry, Q.M.C.,</i>	12 noon,	4 4	} Dr. H. W. Bolam.
<i>Chemical Laboratory, Q.M.C.,</i>	9-1 and 2-5, (in winter)	£5 5 or 10 10	
<i>Zoology (Elementary),</i>	9 a.m.,	4 4	
<i>Zoological Laboratory (Elementary),</i>	{ 11 a.m. or 3 p.m.,	3 3	} PROF. GRAHAM KERR.
<i>Zoology (Spring Course—Invertebrata),</i>	(p. 144), 9 a.m.,	3 3 <sup>3</sup>	
<i>Evolution (Jan.-Mar.),</i>	4 p.m. Wed. (see p. 144).	No fee.	
<i>Heredity (Jan.-Mar.),</i>	(see p. 144),	1 1 <sup>4</sup>	Dr. W. E. Agar.

<sup>1</sup> Fee for Political Philosophy and Social Economics taken in a single session, £5 5s.

<sup>2</sup> The Physical Laboratory (subject to Professor's permission) and the Chemical Laboratory may be attended also in the Summer Session (April-June). Fees same as for "Half Session."

<sup>3</sup> See fifth note on p. 71. There is also a Zoology Class in the Summer Session (April-June).

<sup>4</sup> The course is open free to past or present members of the classes of Botany or Zoology.

The classes marked Q.M.C. meet in the buildings of Queen Margaret College.

NOTICE AS TO PRACTICAL CLASSES.—Students are required to begin practical work at the commencement of each term. Unless by special leave, no student can be admitted to a practical class who does not present himself within the first week.

Inclusive Fees in Arts, Science, and Law—See end of volume.

\* These and other classes may have to be suspended during the Session 1918-19.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Botany, Advanced,</i>	10 a.m. (see p. 142),	£3 3 <sup>1</sup>	} PROF. BOWER.
<i>Botanical Laboratory, Advanced,</i>	(see p. 142),	3 3 <sup>1</sup>	
<i>Botany [Half Course for M.A.],</i>	(Oct.-Dec.),	4 4 <sup>2</sup>	
	(Apr.-June),	3 3 <sup>2</sup>	} Mr. Drummond.
<i>Geology (Lectures and Practical),</i>	4.30 p.m.,	5 5	
<i>Geography,</i>	2 to 4 p.m.,	4 4	} Dr. Falconer.
<i>Advanced,</i>	9-11 a.m. (see p. 117),	4 4 <sup>3</sup>	
<i>History,</i>	10 a.m.,	4 4	} PROF. MEDLEY.
<i>Higher Ordinary,</i>	10 a.m. (see p. 118),	4 4	
<i>Honours,</i>	10 a.m.,	4 4	
<i>Constitutional Law and</i>	} 4.30 p.m.,	} 4 4	} Vacant.
<i>History,</i>			
<i>Honours,</i>	3 p.m.,	4 4	
<i>Roman Law,</i>	5.30 p.m.,	4 4	} Mr. H. R. Buchanan.
<i>Scottish History and Literature,</i>	12 noon,	4 4	
<i>Higher Ordinary,</i>	10 a.m.,	4 4	} PROF. RAIT.
<i>Honours,</i>	10 a.m.,	4 4	

Beginning on Wednesday, 23rd April, 1919.

<i>Hebrew, Senior (esp. for B.D.),</i>	9 a.m.,	2 2	PROF. STEVENSON.
<i>Honours (Qual. Half-Course),</i>	10 a.m.,	2 2 <sup>4</sup>	PROF. STEVENSON.
<i>Syriac (Adv.) or Comparative Semitic</i>			
<i>Philology and Aramaic,</i>		1 1	PROF. STEVENSON.
<i>Arabic (Elementary),</i>		2 2 <sup>5</sup>	} Mr. T. H. Weir.
<i>(Advanced),</i>		2 2	

## II.—SCIENCE.<sup>6</sup>

### WINTER SESSION, 1918-19.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Mathematics,</i>	8 a.m. or 12 noon,	£4 4	} PROF. GIBSON.
<i>Q.M.C.,</i>	8.45 a.m.,	4 4	
<i>Q.M.C.,</i>	2 p.m.,	4 4	
<i>Higher Ordinary,</i>	10 a.m.,	4 4	
<i>Honours (Intermed.),</i>	10 a.m.,	4 4	
<i>Honours (Advanced),</i>	9 a.m.,	4 4	
<i>First Course for Engineers,</i>	12 noon,	4 4	
<i>Second Course for Engineers,</i>	11 a.m.,	4 4	

<sup>1</sup> See seventh note on page 71. Advanced Courses are given also in the Summer Session (April-June).

<sup>2</sup> In both Half Courses in Botany the class hours are: Lectures, 12 noon; Laboratory, 12 noon—2 p.m.

<sup>3</sup> Fee for students who have already attended the Ordinary Class in Geography, £2 2s.

<sup>4</sup> Students who joined the Honours Hebrew Class in October are not required to pay this fee.

<sup>5</sup> For Students who are attending, or have attended, the Hebrew Class, the fee is £1 1s.

<sup>6</sup> Any Graduate in Science shall be allowed to enter any Laboratory Course within the curriculum of the degree which he has taken, on payment of half the ordinary fee for such course, provided that if the course be required for further graduation he shall pay the full fee.

The classes marked Q.M.C. meet in the buildings of Queen Margaret College.

NOTICE AS TO PRACTICAL CLASSES.—Students are required to begin practical work at the commencement of each term. Unless by special leave, no student can be admitted to a practical class who does not present himself within the first week.

Inclusive Fees in Arts, Science, and Law.—See end of volume.

\* These and other classes may have to be suspended during the Session 1918-19.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Natural Philosophy,</i>	9 a.m.,	£4 4	
<i>Nat. Phil., Higher Class C.,</i>	12 noon, Mon., Tu., Th.,	4 4	} PROF. GRAY.
<i>Nat. Phil., Higher Class A.</i>	{ 11 a.m., Mon.; 12 noon, Wed., Fri.,	4 4	
— <i>B. (For Engineers),</i>	12 noon, Mon., Tu., Th.,	4 4	
— <i>A. and C. or A. and B. in One Session,</i>		5 5	
<i>Physical Laboratory, Whole Session</i>	(6 hours weekly),	6 6	
— <i>Half</i>	„ (6 hours weekly),	3 3	
— „	„ (10 hours weekly),	4 4	} Dr. G. E. Allan.
— <i>(B.Sc. Public Health,</i>	Oct.-Dec., 6 hours weekly),	3 3	
<i>Electricity,</i>	12 noon, Wed. and Fri.,	3 3	
* <i>Astronomy, Class A.,</i>	{ 3 p.m., Tues., Th., and Fri. (see p. 122),	2 2	} PROF. BECKER.
* — <i>Class B.,</i>	{ 3 p.m., Mon., Wed., and Fri. (see p. 122),	2 2	
* — <i>Classes A. and B. in same Session,</i>		4 4	
<i>Chemistry,</i>	10 a.m.,	4 4	} PROF. ———
<i>Chemical Laboratory,</i>	10 a.m. to 4 p.m.,	10 10	
— <i>(Half Session),</i>		5 5	
<i>Chemistry (for Students of Applied)</i>			
<i>Chemistry, Engineering, Mining, or</i>	10 a.m.,	4 4	Dr. C. H. Desch.
<i>Naval Architecture,</i>			
<i>Inorganic Chemistry (Subsidiary),</i>	(see p. 294),	3 3	} Dr. A. W. Stewart.
<i>Physical Chemistry,</i>	10 a.m. (see p. 125),	3 3	
— <i>Practical Course,</i>		2	
<i>Inorganic Chemistry (Advanced),</i>	10 a.m. (see p. 126),	3 3	} Dr. T. S. Patterson.
<i>Organic Chemistry,</i>	11 a.m. (see p. 123),	3 3	
— <i>Higher,</i>	(see p. 123),	No fee.	
<i>Metallurgical Chemistry,</i>	12 noon,	4 4	} Dr. C. H. Desch.
— <i>Class A. (Oct.-Dec.) or</i>		2 2	
— <i>Class B. (Jan.-Mar.),</i>		2 2	
<i>Metallurgical Laboratory,</i>	10 a.m. to 4 p.m.,	5 5	} Dr. H. W. Bolam.
<i>Chemistry, Q.M.C.,</i>	12 noon,	4 4	
<i>Chemical Laboratory, Q.M.C.</i>	{ 9-1 and 2-5,	5 5	
(in winter),		or 10 10	

[In regard to the Advanced Chemistry Classes see also footnotes Nos. 4 and 5.]

<sup>1</sup> In the case of students who attend Physical and Inorganic in separate sessions the total fee will be £5 5s., viz. £3 3s. for the class first taken and £2 2s. for the other. If both be taken in the same session the total fee will also be £5 5s.

<sup>2</sup> Students must be enrolled for the Chemical Laboratory.

<sup>3</sup> Half-day attendance.

<sup>4</sup> Students who have already attended any Lecture Course in Advanced Chemistry and obtained the Class Certificate for it may re-attend the same course for a fee of one guinea.

<sup>5</sup> Students who have already paid 29 guineas for Lecture and Laboratory Classes in Advanced Chemistry, having been granted Class Certificates for these classes, may enrol in any Lecture Class for one guinea, and for the laboratory at half the full fee.

The classes marked Q.M.C. meet in the buildings of Queen Margaret College.

NOTICE AS TO PRACTICAL CLASSES.—Students are required to begin practical work at the commencement of each term. Unless by special leave, no student can be admitted to a practical class who does not present himself within the first week.

Inclusive Fees in Arts, Science, and Law—See end of volume.

\* These and other classes may have to be suspended during the Session 1918-19.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Anatomy</i> (First Course), Jan.-Mar., 9 a.m., . . .		£2 2	} PROF. BRYCE and Demonstrators.
(Second Course), Oct.-Dec., 11.30 a.m., . . .		2 2	
Practical (Oct.-Mar.), 2 a.m. to 4.45 p.m., . . .		6 6 <sup>1</sup>	
" (Oct.-Dec. or Jan.-Mar.), " . . .		3 3 <sup>1</sup>	
<i>Practical Anatomy</i> (Old Med. Ord.), 9 a.m. to 4.45 p.m., . . .		4 4 <sup>2 1</sup>	} Dr. T. Walmsley.
<i>Embryological Laboratory</i> , . . . (see p. 146), . . . per term,		3 3 <sup>3</sup>	
<i>Physiology</i> , . . . 12.30 p.m. . . . .		4 4 <sup>4</sup>	} PROF. NOËL PATON, the Lecturers, and the Assistants.
<i>Practical Physiology</i> (see p. 148), . . .			
Advanced (see p. 148), . . . per term,		2 2	} (Vacant.)
<i>Physiological Chemistry</i> , . . . (see p. 149), . . .		2 2	
<i>Psychology</i> , . . . (see p. 150), . . .		4 4	} Dr. H. J. Watt.
Advanced, . . . (see p. 104), . . .		2 2	
<i>Zoology, Elementary</i> , . . . 9 a.m., . . .		4 4 <sup>4</sup>	} PROF. GRAHAM KERR.
<i>Zoological Laboratory, Ele-</i>			
<i>mentary</i> , . . . 11 a.m. or 3 p.m., . . .		3 3	
<i>Zoology</i> (Spring Course— <i>Invertebrata</i> ), 9 a.m. (see p. 144),		3 3 <sup>5</sup>	
<i>Evolution</i> (Jan.-Mar.), 4 p.m. Wed. (see p. 144), . . .		No fee.	} Dr. W. E. Agar.
<i>Heredity</i> (Jan.-Mar.), (see p. 144), . . .		1 1 <sup>6</sup>	
<i>Botany, Advanced</i> , . . . 10 a.m. (see p. 142), . . .		3 3 <sup>7</sup>	} PROF. BOWER.
<i>Botanical Laboratory, Ad-</i>			
<i>vanced</i> , . . . (see p. 142), . . .		3 3 <sup>7</sup>	} Mr. Drummond.
<i>Botany</i> [Half Course], Oct.-Dec., <i>Lect.</i> 12 noon, <i>Lab.</i> 12-2,		4 4	
<i>Geology</i> (Public Health), . . . 4.30 p.m. . . .		3 3	} PROF. GREGORY.
(Mining), <i>Part I.</i> , . . . 4.30 p.m. . . .		3 3 <sup>8</sup>	
<i>Part II.</i> (see p. 127), . . .		2 2	
(Agriculture), . . . 4.30 p.m. . . .		4 4 <sup>4</sup>	
(Engineering), . . . 4.30 p.m. . . .		4 4 <sup>4</sup>	
<i>Geology and Mineralogy</i> , . . . 4.30 p.m. . . .		5 5	
(Advanced), . . . 5.30 p.m. . . .		5 5	} Dr. Falconer.
" (Oct.-Dec. or Jan.-Mar.), . . .		2 12 6	
<i>Practical Geology</i> , . . . 4.30 p.m. to 6.30 p.m. . . .		3 3 <sup>9</sup>	} Dr. Falconer.
<i>Geography</i> , . . . 2 to 4 p.m. . . .		4 4	
Advanced, . . . 9 to 11 a.m. (see p. 117), . . .		4 4 <sup>10</sup>	

<sup>1</sup> This fee includes all charges.

<sup>2</sup> Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture courses, may afterwards enrol in Practical Anatomy at £1 1s.

<sup>3</sup> Fee for a second course, £1 11s. 6d.

<sup>4</sup> Fee for a second or subsequent session, £3 3s.

<sup>5</sup> Students who have attended Lectures or Laboratory Classes in Zoology and paid fees amounting to at least £13 13s., in respect of such classes, may afterwards enrol in any Lecture or Laboratory Class in Zoology for £1 1s.

<sup>6</sup> The course is open free to past or present members of the classes of Botany or Zoology.

<sup>7</sup> Students who have attended Lectures or Laboratory Classes in Botany and paid fees amounting to at least £13 13s., in respect of such classes, may afterwards enrol in any Lecture or Laboratory Class in Botany for £1 1s.

<sup>8</sup> If with Practical Class, £5 5s.

<sup>9</sup> Fee for students who have already attended the Geology Class in the University, £2 2s.

<sup>10</sup> Fee for students who have already attended the Ordinary Class in Geography, £2 2s.

NOTICE AS TO PRACTICAL CLASSES.—Students are required to begin practical work at the commencement of each term. Unless by special leave, no student can be admitted to a practical class who does not present himself within the first week.

Inclusive Fees in Arts, Science, and Law—See end of volume.

\* These and other classes may have to be suspended during the Session 1918-19.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
Public Health, . . . . .	12 noon, 4 days weekly, . . . . .	£4 4 <sup>1</sup>	} PROF. GLAISTER and Assistants.
Public Health Laboratory, . . . . .	10 a.m. to 4 p.m., . . . . .	12 12	
(Half Session), . . . . .	. . . . .	6 6	
*Engineering, Class I., . . . . .	9 a.m., . . . . .	2 2	} PROF. CORMACK, Lecturers and De- monstrators.
II., . . . . .	10 a.m., Mon., Wed., Fri., . . . . .	2 2	
*III., . . . . .	10 a.m., Mon., Wed., Fri., . . . . .	2 2	
IV., . . . . .	9 a.m. daily, ex. Sat., . . . . .	4 4 <sup>1</sup>	
*Engineering Drawing, etc., { . . . . .	9 a.m. to 5 p.m. daily, except Sat., . . . . .	4 4 <sup>1</sup>	
*Engineering Laboratory, . . . . .	9 a.m. to 5 p.m., . . . . .	10 10	} PROF. CORMACK, Lecturers and De- monstrators.
(Second Session), . . . . .	. . . . .	5 5	
*Engineering Laboratory, { . . . . .	9 a.m. to 5 p.m., . . . . .	3 3	
Mechanical or Electrical, . . . . .	. . . . .	. . . . .	
*Electrical Engineering, Class I., . . . . .	8 a.m. Mon., Wed., Fri., . . . . .	2 2	} Mr. J. S. Nicholson.
Class II., . . . . .	8 a.m. Tues., Thur., Sat., . . . . .	2 2	
*Mining, Class I., . . . . .	3 p.m., Mon., Wed., . . . . .	2 2	} PROF. —
II., . . . . .	3 p.m., Tues., Thurs., . . . . .	2 2	
III., . . . . .	3 p.m., Fri., . . . . .	1 1	
IV. (Practical), . . . . .	(see p. 135), . . . . .	1 1	
*Naval Architecture and Mar- ine Engineering, Junior, { . . . . .	12 noon, Mon., Wed., Fri., . . . . .	3 3	} PROF. SIR J. H. BILES.
Senior, { . . . . .	11 a.m., Mon., Tu., Th., . . . . .	3 3	
*Practical, Junior, { . . . . .	2 to 5 p.m., Tu., Wed., Th., and Fri., . . . . .	3 3	
Senior, { . . . . .	2 to 5 p.m., Tu., Wed., Th., and Fri., . . . . .	3 3	
	. . . . .	. . . . .	

## SUMMER SESSION, 1919.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
Zoology (Vertebrata), . . . . .	(see p. 144), . . . . .	£3 3 <sup>2</sup>	} PROF. GRAHAM KERR.
*Zoology, Experimental, . . . . .	(see p. 144), . . . . .	. . . . .	
*Protozoology, . . . . .	(see p. 144), . . . . .	2 2 <sup>3</sup>	} Mr. Dunkerly.
Botany, Advanced, . . . . .	(see p. 142), . . . . .	3 3 <sup>4</sup>	
Botanical Laboratory, Advanced, (see p. 142), . . . . .	. . . . .	3 3 <sup>4</sup>	} PROF. BOWER.
Botany [Half Course] Lect. 12 noon, Lab. 12-2, . . . . .	. . . . .	3 3 <sup>5</sup>	
Physical Laboratory, . . . . .	(10 hours weekly), . . . . .	4 4 <sup>6</sup>	} PROF. GRAY.
. . . . .	(6 hours weekly), . . . . .	3 3 <sup>6</sup>	
Chemical Laboratory, . . . . .	10 a.m. to 4 p.m., . . . . .	5 5	} PROF. —
Organic Chemistry (Special), (see p. 124), . . . . .	No fee.	. . . . .	
Radio-activity, . . . . .	(see p. 126), . . . . .	2 2	} Dr. A. W. Stewart.
Metallography, . . . . .	(see p. 125), . . . . .	1 1	
Metallurgical Laboratory, 10 a.m. to 4 p.m., . . . . .	. . . . .	5 5	Dr. C. H. Desch.

<sup>1</sup> Fee for a second or subsequent Session, £3 3s.

<sup>2</sup> See fifth note on p. 71.

<sup>3</sup> The course is open free to past or present members of the classes of Botany or Zoology.

<sup>4</sup> See seventh note on p. 71.

<sup>5</sup> To be preceded for graduation purposes by the Winter Half Course (Oct.-Dec.).

<sup>6</sup> Enrolment is subject to Professor's permission.

NOTICE AS TO PRACTICAL CLASSES.—Students are required to begin practical work at the commencement of each term. Unless by special leave, no student can be admitted to a practical class who does not present himself within the first week.

Inclusive Fees in Arts, Science, and Law—See end of volume.

\* These and other classes may have to be suspended during the Session 1918-19.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Practical Anatomy (New Med. Ord.),</i> . . . 9 a.m. to 4.45 p.m., .		£3 3 <sup>1</sup>	} PROF. BRYCE and Demonstrators.
<i>Practical Anatomy (Old Med. Ord.),</i> . . . 9 a.m. to 4.45 p.m., .		2 12 6 <sup>2 1</sup>	
<i>Physical Anthropology,</i> . . . (see p. 147), .		1 1	
<i>Embryology,</i> . . . (see p. 146), .		1 1	} Dr. T. Walmsley.
<i>Embryological Laboratory,</i> . . . 9 a.m. to 4.45 p.m. (see p. 146), .		3 3 <sup>3</sup>	
<i>Practical Physiology,</i> 9 to 11 a.m. (see p. 148), .		4 4 <sup>4</sup>	} PROF. NOËL PATON, the Lecturers, and the Assistants.
<i>Advanced</i> (see p. 148), .		2 2	
<i>Public Health Laboratory,</i> (see p. 155), .		6 6	PROF. GLAISTER.

### III.—MEDICINE.

#### WINTER SESSION, 1918-19.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Zoology, Elementary,</i> . . . 9 a.m., .		£4 4 <sup>5</sup>	} PROF. GRAHAM KERR.
<i>Zoological Laboratory, Elementary,</i> . . . 11 a.m. or 3 p.m., .		3 3	
<i>Evolution</i> (Jan.-Mar.), 4 p.m. Wed. (see p. 144).		No fee.	
<i>Heredity</i> (Jan.-Mar.) (see p. 144), . . . .		1 1 <sup>6</sup>	} Dr. W. E. Agar.
<i>Chemistry,</i> . . . 10 a.m., .		4 4 <sup>7</sup>	
<i>Chemical Laboratory,</i> 10 a.m. to 4 p.m. (see p. 140), .		5 5	} PROF. ———
<i>Anatomy</i> (First Course), Jan.-Mar., 9 a.m., .		2 2	
——— (Second Course), Oct.-Dec., 11.30 a.m., .		2 2	} PROF. BRYCE and Demonstrators.
——— Practical (Oct.-Mar.), 9 a.m. to 4.45 p.m., .		6 6 <sup>1</sup>	
——— Practical (Oct.-Dec. or Jan.-Mar.), do., .		3 3 <sup>1</sup>	
<i>Practical Anatomy (Old Med. Ord.),</i> . . . 9 a.m. to 4.45 p.m., .		4 4 <sup>2 1</sup>	} Dr. T. Walmsley.
<i>Embryological Laboratory</i> (see p. 146), per term, .		3 3 <sup>3</sup>	

<sup>1</sup> This fee includes all charges.

<sup>2</sup> Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture Courses, may afterwards enrol in Practical Anatomy at £1 1s.

<sup>3</sup> Fee for a second course, £1 11s. 6d.

<sup>4</sup> See fourth note on p. 76.

<sup>5</sup> Fee for a second or subsequent session, £3 3s.

<sup>6</sup> The course is open free to past or present members of the classes of Botany or Zoology.

<sup>7</sup> Fee for a second or subsequent course, £3 3s.

NOTICE AS TO PRACTICAL CLASSES.—Students are required to begin practical work at the commencement of each term. Unless by special leave, no student can be admitted to a practical class who does not present himself within the first week.

Inclusive Fees in Arts, Science, and Law—See end of volume.

\* These and other classes may have to be suspended during the Session 1918-19.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Physiology</i> , . . . . . 12.30 p.m., . . . . .	£4 4 <sup>1</sup>	} PROF. NOEL PATON, the Lecturers, and the Assistants.	
<i>Practical Physiology</i> (see p. 148), . . . . .	4 4 <sup>2</sup>		
<i>Physiological Chemistry</i> (see p. 149), . . . . .	2 2	} (Vacant.)	
<i>Psychological Physiology</i> (see p. 150), . . . . .	4 4		Dr. H. J. Watt.
<i>Materia Medica and Therap.</i> , 11 a.m., . . . . .	4 4 <sup>1</sup>	} PROF. STOCKMAN.	
<i>Pathology</i> , . . . . . 2 p.m., . . . . .	4 4 <sup>1</sup>		
<i>Pathological Histology</i> (see p. 151), . . . . .	3 3 <sup>3</sup>	} PROF. MUIR.	
<i>Practical Bacteriology</i> (see p. 151), . . . . .	3 3 <sup>3</sup>		G. H. Wilson, M.B.
<i>Clinical Pathology</i> , (see p. 152), For Under- graduates, . . . . .	0 10	} Dr. J. Shaw Dunn.	
— (see p. 152), For Graduates, . . . . .	2 12 <sup>4</sup>		
<i>Midwifery</i> , . . . . . 2 p.m., . . . . .	4 4 <sup>1</sup>	} PROF. M. CAMERON.	
<i>Surgery</i> , . . . . . 12 noon, . . . . .	4 4 <sup>1</sup>		
<i>Clinical Surgery</i> (Western Infirmary), 9.15 a.m., . . . . .	3 3	} PROF. SIR WM. MACEWEN.	
<i>Practice of Medicine</i> , . . . . . 11 a.m., . . . . .	4 4 <sup>1</sup>		
<i>Clinical Medicine</i> (Western Infirmary), 9 a.m., . . . . .	3 10	} PROF. T. K. MONRO.	
<i>Public Health</i> , . . . . . 12 noon, four days weekly, . . . . .	4 4 0 <sup>1</sup>		
<i>Public Health Laboratory</i> , . . . . . 10 a.m. to 4 p.m., . . . . .	12 12 0	} PROFESSOR GLAISTER and Assistants.	
— (Half Session), . . . . .	6 6 0		
<i>Dermatology</i> (Hours to be arranged), . . . . .	1 11	} J. WYLLIE NICOL, M.B.	
<i>Ophthalmology</i> , . . . . . (see p. 166), . . . . .	2 2		Dr. A. M. Ramsay.
<i>Ear</i> , . . . . . { 4 p.m., Wed. (University) 4 p.m., Mon. or Thurs., (Western Infirmary), . . . . .	1 1	} Dr. A. A. Gray.	
<i>Throat and Nose</i> , . . . . . { 4 p.m., Th. (University), 4 p.m., Tues. or Fri. (Western Infirmary), . . . . .	1 1		J. Walker Downie, M.B.

## CLASSES AT QUEEN MARGARET COLLEGE.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Chemistry</i> , . . . . . 12 noon, . . . . .	£4 4 <sup>1</sup>	} Dr. H. W. Bolam.	
<i>Chemical Laboratory</i> , { 9 a.m. to 1 p.m., . . . . . and 2 p.m. to 5 p.m. } 5 5 or 10 10			
<i>Practical Chemistry</i> (before Christmas), 10.15 a.m. <sup>5</sup> } — (after Christmas), 9 a.m., <sup>6</sup> } 5 5			
<i>Anatomy</i> (First Course), Jan.-Mar., 11 a.m., . . . . .	2 2	} Mr. W. K. Hutton and Demonstrator.	
— (Second Course), Oct.-Dec., 11.30 a.m., . . . . .	2 2		
— (Special Demonstrations, 3 p.m., three days weekly), . . . . .			
— <i>Practical</i> (Oct.-Mar.), 9 a.m. to 5 p.m., . . . . .	6 6 <sup>6</sup>		
— (Oct.-Dec. or Jan.-Mar.), . . . . .	3 3 <sup>6</sup>		
<i>Practical Anatomy</i> (Old Med. Ord.), 9 a.m. to 5 p.m., . . . . .	4 4 <sup>7</sup>		

<sup>1</sup> Fee for a second or subsequent session, £3 3s.

<sup>2</sup> Fee for a second attendance, £3 3s. See also fourth note on p. 76.

<sup>3</sup> Fee for Pathological Histology and Practical Bacteriology taken together, £5 5s.

<sup>4</sup> Fee for a second course, £1 11s. 6d.

<sup>5</sup> Tuesday, Wednesday, Thursday.

<sup>6</sup> This fee includes all charges.

<sup>7</sup> Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture Courses, may afterwards enrol in Practical Anatomy at £1 1s.

NOTICE AS TO PRACTICAL CLASSES.—Students are required to begin practical work at the commencement of each term. Unless by special leave, no student can be admitted to a practical class who does not present himself within the first week.

\* These and other classes may have to be suspended during the Session 1918-19.

† These arrangements are subject to revision at the opening of the session.

## CLASSES AT THE ROYAL INFIRMARY.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Pathology.</i>	3 p.m., . . . . .	£4 4 <sup>1</sup>	
* <i>Practical Bacteriology</i> (see p. 152), . . . . .		3 3	} PROF. TEACHER.
<i>Clinical Pathology</i> , For Undergraduates, . . . . .		0 10	
For Graduates, . . . . .		2 12 <sup>2</sup>	
<i>Midwifery</i> ( <i>Syst. and Clin.</i> ), 2 p.m., . . . . .		4 4 <sup>1</sup>	
<i>Clinical Gynaecology</i> , . . . . .	3 p.m., Tu., Th., Fri., (Ward 30)	1 15	} PROF. MUNRO KERR.
	Per Term.		
<i>Surgery</i> , . . . . .	11 a.m., . . . . .	4 4 <sup>1</sup>	
<i>Clinical Surgery</i> , . . . . .	9 a.m., . . . . .	1 15	} PROF. KENNEDY.
	Per Term.		
<i>Clinical Surgery</i> , . . . . .	9 a.m., . . . . .	1 15	} Dr. J. A. Adams.
	Per Term.		
<i>Clinical Surgery</i> , . . . . .	9 a.m., . . . . .	1 15	} Dr. A. N. M'Gregor.
	Per Term.		
<i>Practice of Medicine</i> , . . . . .	12 noon, . . . . .	4 4 <sup>1</sup>	
<i>Clinical Medicine</i> , . . . . .	9.15 a.m., . . . . .	1 15	} PROF. HUNTER.
	Per Term.		
* <i>Clinical Medicine</i> , . . . . .	9 a.m., . . . . .	1 15	} Dr. J. M. Cowan.
	Per Term.		
<i>Clinical Medicine</i> , . . . . .	9 a.m., . . . . .	1 15	} J. B. Mackenzie Anderson, M.B.
	Per Term.		
* <i>Clinical Medicine</i> , . . . . .	9 a.m., . . . . .	1 15	} Dr. J. Henderson.
	Per Term.		
<i>Clinical Medicine</i> , . . . . .	9 a.m., . . . . .	1 15	} Dr. W. R. Jack.
	Per Term.		
<i>Ear</i> , . . . . .	(see p. 167), . . . . .	1 1	Dr. J. Kerr Love.
<i>Throat and Nose</i> , . . . . .	(see p. 169), . . . . .	1 1	J. Macintyre, M.B.
<i>Dermatology</i> , . . . . .	(see p. 170), . . . . .	1 11 6	G. M'Intyre, M.B.
<i>Venereal Diseases</i> , . . . . .	(see p. 170), . . . . .	1 1	Dr. D. Watson.

## SUMMER SESSION, 1919.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Physics</i> , . . . . .	11 a.m., . . . . .	£3 3	Dr. James G. Gray.
<i>Practical Physics</i> , 9 a.m. to 11 a.m. or 2 p.m. to 4 p.m. (see p. 115), . . . . .		2 2	} PROF. GRAY.
<i>Botany</i> , . . . . .	8 a.m. (see p. 141), . . . . .	4 4 <sup>1</sup>	
<i>Botanical Laboratory</i> , . . . . .	9 a.m. to 4 p.m., . . . . .	3 3 <sup>3</sup>	} PROF. BOWER.
<i>Zoology</i> ( <i>Invertebrata</i> ), (see p. 144), . . . . .		3 3 <sup>4</sup>	
* <i>Protozoology</i> , . . . . .	(see p. 144), . . . . .	2 2 <sup>5</sup>	Mr. Dunkerly.

<sup>1</sup> Fee for a second or subsequent session, £3 3s.

<sup>2</sup> For information apply to Professor Teacher. Fee for a second course, £1 11s. 6d.

<sup>3</sup> Students who have attended Lectures or Laboratory Classes in Botany and paid fees amounting to at least £13 13s., in respect of such classes, may afterwards enrol in any Lecture or Laboratory Class in Botany for £1 1s.

<sup>4</sup> Students who have attended Lectures or Laboratory Classes in Zoology and paid fees amounting to at least £13 13s., in respect of such classes, may afterwards enrol in any Lecture or Laboratory Class in Zoology for £1 1s.

<sup>5</sup> The course is open free to past or present members of the classes of Botany or Zoology.

NOTICE AS TO PRACTICAL CLASSES.—*Students are required to begin practical work at the commencement of each term. Unless by special leave, no student can be admitted to a practical class who does not present himself within the first week.*

\* These and other classes may have to be suspended during the Session 1918-19.

<i>Chemical Laboratory</i> , . . . . .	10 a.m. to 4 p.m., .	£5 5	PROF. ———
<i>Practical Anatomy</i> ( <i>New Med. Ord.</i> ), . . . . .	9 a.m. to 4.45 p.m., .	3 3 <sup>1</sup>	} PROF. BRYCE and Demonstrators.
<i>Practical Anatomy</i> ( <i>Old Med. Ord.</i> ), . . . . .	9 a.m. to 4.45 p.m., .	2 12 6 <sup>2</sup>	
<i>Physical Anthropology</i> , . . . . .	(see p. 147), . . . . .	1 1	
<i>Embryology</i> , . . . . .	(see p. 146), . . . . .	1 1	} Dr. T. Walmsley.
<i>Embryological Laboratory</i> , . . . . .	(see p. 146), . . . . .	3 3 3 <sup>3</sup>	
<i>Practical Pharmacy</i> , . . . . .	8 a.m. or 12 noon, . . . . .	3 3	PROF. STOCKMAN.
<i>Practical Pathology</i> , 1 to 3 p.m. (see p. 151), . . . . .		3 3 <sup>4</sup>	PROF. MUIR.
<i>Practical Physiology</i> , 9 to 11 a.m. (see p. 148), . . . . .		4 4 <sup>4</sup>	} PROF. NOEL PATON, the Lecturers, and the Assistants.
<i>Clinical Pathology</i> , (see p. 152), For Under-graduates, . . . . .		0 10	
————— (see p. 152), For Graduates, . . . . .		2 12 <sup>6</sup>	} Dr. J. Shaw Dunn.
<i>Medical Jurisprudence and Public Health</i> , . . . . .	{ 11 a.m. and 8 a.m. (see p. 154) }	4 4 <sup>7</sup>	
<i>Public Health Laboratory</i> , . . . . .	(see p. 155), . . . . .	6 6	} PROF. GLAISTER.
<i>Diseases of Women</i> , . . . . .	2 p.m., Tu., Th., Fri., . . . . .	2 2	
<i>Operative Surgery</i> , { 12 noon, with practical work at other hours as may be arranged, . . . . . }		3 3	PROF. SIR WM. MACEWEN.
<i>Clinical Surgery</i> ( <i>Western Infirmary</i> ), 9.15 a.m., . . . . .		2 2	PROF. SIR WM. MACEWEN.
<i>Clinical Medicine</i> ( <i>Western Infirmary</i> ), 9 a.m., . . . . .		1 15	PROF. T. K. MONRO.
<i>Insanity</i> , . . . . .	{ 12 noon, Wed. (University), } { 10 a.m., Sat. (Gartnavel), }	2 2	} L. R. Oswald, M.B.
<i>Dermatology</i> , 2 p.m., Mon., Wed. (and other days) and hours as may be arranged), . . . . .		1 11 6	
<i>Ophthalmology</i> , . . . . .	(see p. 166), . . . . .	2 2	Dr. A. M. Ramsay.
<i>Ear</i> , . . . . .	{ 4 p.m., Wed. (University), } { 4 p.m., Mon. or Thurs., (Western Infirmary), }	1 1	} Dr. A. A. Gray.
<i>Throat and Nose</i> , { 4 p.m., Th. (University), } { 4 p.m., Tues. or Friday (Western Infirmary), }		1 1	

<sup>1</sup> This fee includes all charges.

<sup>2</sup> Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture Courses, may afterwards enrol in Practical Anatomy at £1 1s.

<sup>3</sup> Fee for a second course, £1 11s. 6d.

<sup>4</sup> The fee covers the whole course, viz.: I. In summer, Practical Histology; II. In winter Practical General Physiology (Oct.-Dec.) and Practical Chemical Physiology (Jan.-March). If possible, students should take Practical Histology before attending the winter *Systematic* Class. Students who have already attended the Practical Physiology Course may enrol for £1 1s. in any one of the three sections.

<sup>5</sup> After first Lecture, the Class will meet in divisions.

<sup>6</sup> Fee for a second course, £1 11s. 6d.

<sup>7</sup> Fee for a second or subsequent session, £3 3s.

NOTICE AS TO PRACTICAL CLASSES.—Students are required to begin practical work at the commencement of each term. Unless by special leave, no student can be admitted to a practical class who does not present himself within the first week.

\* These and other classes may have to be suspended during the Session 1918-19.

## † CLASSES AT QUEEN MARGARET COLLEGE.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Practical Anatomy (New Medical Ordinance),</i>	9 a.m. to 5 p.m.,	£3 3 <sup>1</sup>	} Mr. W. K. Hutton and Demonstrator.
<i>Practical Anatomy (Old Med. Ord.),</i>	9 a.m. to 5 p.m.,	2 12 6 <sup>21</sup>	
<i>Embryology,</i>	{ 11 a.m., Mon., Tues., Wed., Thurs., }	1 1	

## CLASSES AT THE ROYAL INFIRMARY.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Practical Pathology,</i>	1-3 p.m., M., T., Th., F.,	£3 3	PROF. TEACHER.
<i>Gynaecology (Systematic and Clinical),</i>	2 p.m., Tu., Th., Fri.,	2 2	} PROF. MUNRO KERR.
<i>Operative Surgery,</i>	11 a.m.,	3 3	
<i>Clinical Surgery,</i>	9 a.m.,	1 15	} PROF. KENNEDY.
<i>Clinical Surgery,</i>	9 a.m.,	1 15	
<i>Clinical Surgery,</i>	9 a.m.,	1 15	Dr. J. A. Adams.
<i>Clinical Surgery,</i>	9 a.m.,	1 15	Dr. A. N. M'Gregor.
<i>Clinical Medicine,</i>	9.15 a.m.,	1 15	PROF. HUNTER.
* <i>Clinical Medicine,</i>	9 a.m.,	1 15	Dr. J. M. Cowan.
<i>Clinical Medicine,</i>	9 a.m.,	1 15	{ J. B. Mackenzie Anderson, M.B.
* <i>Clinical Medicine,</i>	9 a.m.,	1 15	
<i>Clinical Medicine,</i>	9 a.m.,	1 15	Dr. J. Henderson.
<i>Clinical Medicine,</i>	9 a.m.,	1 15	Dr. W. R. Jack.
<i>Ear,</i>	(see p. 167),	1 1	Dr. J. Kerr Love.
<i>Throat and Nose,</i>	(see p. 169),	1 1	J. Macintyre, M.B.
<i>Dermatology,</i>	(see p. 170),	1 11 6	G. M'Intyre, M.B.
<i>Venercal Diseases,</i>	(see p. 170),	1 1	Dr. D. Watson.
<i>Psychological Medicine,</i>	(see p. 165),	2 2	J. H. M'Donald, M.B.

<sup>1</sup> This fee includes all charges.

<sup>2</sup> Students who have taken two winters and two summers of Practical Anatomy, as well as the Junior and Senior Lecture Courses, may afterwards enrol in Practical Anatomy at £1 ls.

NOTICE AS TO PRACTICAL CLASSES.—Students are required to begin practical work at the commencement of each term. Unless by special leave, no student can be admitted to a practical class who does not present himself within the first week.

\* These and other classes may have to be suspended during the Session 1918-19.

† These arrangements are subject to revision.

## IV.—LAW.

## WINTER SESSION, 1918-19.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Scots Law</i> , . . . . .	8 a.m., . . . . .	£4 4 <sup>1</sup>	PROF. GLOAG.
<i>Civil Law</i> , . . . . .	5.30 p.m., . . . . .	4 4 <sup>1</sup>	Mr. H. R. Buchanan.
<i>Conveyancing</i> , . . . . .	8 a.m., . . . . .	4 4 <sup>1</sup>	PROF. M'KECHNIE.
<i>Constitutional Law and History</i> , . . . . .	4.30 p.m., . . . . .	4 4 <sup>2</sup>	} (Vacant).
(Half Course), . . . . .		3 3	
<i>Mercantile Law</i> , . . . . .	5.30 p.m., . . . . .	4 4 <sup>2</sup>	} Mr. T. G. Wright.
(Half Course), . . . . .		3 3	
<i>Public International Law</i> , 8.45 a.m. (see p. 180),		3 3	} Mr. A. H. Charteris.
<i>International Private Law</i> (in Summer),			
<i>Jurisprudence, General or Comparative</i> , . . . . .	4.30 p.m., (see p. 179), . . . . .	3 3	} Mr. A. A. Mitchell.
<i>Political Economy</i> , . . . . .	2 p.m., . . . . .	4 4 <sup>2</sup>	
<i>Forensic Medicine</i> , (Jan.-Mar.) 9 a.m., . . . . .		4 4 <sup>2</sup>	PROF. SCOTT.
			PROF. GLAISTER.

## SUMMER SESSION, 1919.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Evidence and Procedure</i> , . . . . .	8.45 a.m., . . . . .	£3 3	Mr. R. Lamond.
<i>International Private Law</i> , . . . . .	8.45 a.m., . . . . .	3 3	Mr. A. H. Charteris.

## V.—THEOLOGY.

## MONDAY, 14th OCTOBER, 1918.

<i>Classes.</i>	<i>Hours.</i>	<i>Class Fees.</i>	
<i>Divinity, Junior</i> , . . . . .	11 a.m., . . . . .	£3 3	} PROF. REID.
—Senior, . . . . .	12 noon, . . . . .	3 3	
<i>Hebrew, Junior</i> , . . . . .	10 a.m., . . . . .	3 3	} PROF. STEVENSON.
—Senior, . . . . .	11 a.m. (see p. 191), . . . . .	3 3	
* <i>Syriac</i> , . . . . .	9 a.m., twice weekly, . . . . .	2 2 <sup>3</sup>	} (Vacant).
* <i>Hebrew, Elementary</i> (Oct.-Dec.) (see p. 191), . . . . .		2 2	
<i>Arabic (Half Course)</i> , . . . . .	(see p. 192), . . . . .	£1 1 or 2 2	Mr. T. H. Weir.
<i>Ecclesiastical History, Junior</i> , . . . . .	12 noon, . . . . .	3 3	} PROF. COOPER.
—Senior, . . . . .	11 a.m., . . . . .	3 3	
<i>Biblical Criticism, Junior</i> , . . . . .	9 a.m., . . . . .	3 3	} PROF. MILLIGAN.
—Senior, . . . . .	9 a.m. (see p. 196), . . . . .	3 3	

Classes in Semitic Languages beginning on Wednesday, 23rd April, 1919—see page 69.

<sup>1</sup> Fee for a second or subsequent session, £3 3s.

<sup>2</sup> Fee for a second or subsequent course, £3 3s.

<sup>3</sup> For Students who are attending, or have attended, the Hebrew Class, the Fee is £1 1s.

Inclusive Fees in Arts, Science, and Law—See end of volume.

\* These and other classes may have to be suspended during the Session 1918-19.

In addition to the University Courses, the following Hospitals and Dispensaries afford ample means for Practical Instruction in the various departments of Medicine and Surgery :—

**WESTERN INFIRMARY.**—This Hospital contains 595 beds for medical and surgical patients, including Wards for Skin Diseases (twenty beds), and for diseases peculiar to females. *Physicians*—Prof. Ralph Stockman, M.D.; William MacLennan, M.B., C.M.; R. Barclay Ness, M.A., M.B., C.M.; Prof. T. K. Monro, M.A., M.D.; J. Wyllie Nicol, M.B., C.M. (Skin Department). *Gynaecologist*—Prof. Murdoch Cameron, M.D. *Honorary Consulting Gynaecologist*—W. L. Reid, M.D. *Assistant Physicians*—James Carslaw, M.A., M.B., C.M.; John S. M'Kendrick, M.D.; Frank J. Charteris, M.D., Ch.B.; John Gracie, M.B., Ch.B. *Surgeons*—Professor Sir William Macewen, C.B., M.D., LL.D., F.R.S.; Sir Kennedy Dalziel, M.B.; Duncan Macartney, M.D.; Geo. H. Edington, M.D., D.Sc.; John Morton, M.B., Arch. Young, B.Sc., M.B., C.M.; *Honorary Consulting Surgeons*—Sir Hector C. Cameron, M.D., LL.D.; Sir George T. Beatson, K.C.B., etc. *Assistant Surgeons*—M. Logan Taylor, M.B., Ch.B.; C. C. Cuthbert, M.A., M.D., Ch.B.; A. H. Edwards, M.B., C.M. *Dispensary Physicians*—John P. Duncan, B.Sc., M.B., Ch.B.; Geo. A. Allan, M.B., Ch.B.; J. R. C. Greenlees, M.B., B.C.; George H. Clark, M.D., Ch.B.; Daniel R. Kilpatrick, M.D., Ch.B. *Extra Dispensary Physicians*—G. B. Fleming, B.A., B.C., M.B.; Hugh Morton, M.D., Ch.B.; J. W. M'Nee, M.D., Ch.B.; Adam Patrick, M.A., M.D. *Dispensary Gynaecologists*—Samuel J. Cameron, M.B., Ch.B.; Jas. H. Martin, M.D., Ch.B. *Dispensary Physician for Diseases of the Skin*—J. G. Tomkinson, M.D. *Dispensary Surgeons*—R. B. Carslaw, M.A., M.B., Ch.B.; David Dickie, M.B., F.R.C.S.; William Rankin, M.A., M.B., Ch.B.; J. M. Renton, M.B., Ch.B.; Roy F. Young, M.B., B.C.; W. A. Campbell, M.B., Ch.B., F.R.C.S. (Eng.). *Extra Dispensary Surgeons*—W. A. Sewell, B.Sc., M.B., Ch.B.; Charles Bennett, M.B., Ch.B. *Honorary Anaesthetists*—James P. Boyd, M.B.; R. Home Henderson, M.D.; H. P. Fairlie, M.D., Ch.B. *Honorary Consulting Medical Electrician*—D. J. Mackintosh, C.B., M.V.O., M.B., LL.D. *Medical Electricians*—J. G. Tomkinson, M.D.; Archibald Hay, M.A. M.D.; W. F. Somerville, M.A., B.Sc., M.D. *Surgeon for Diseases of*

*the Ear*—Albert A. Gray, M.D., F.R.S.E. *Honorary Consulting Physician for Mental Disorders*—L. R. Oswald, M.B., C.M. *Surgeon for Diseases of the Throat and Nose*—J. Walker Downie, M.B. *Dental Surgeon*—W. D. Woodburn, L.D.S. *Pathologist*—Professor Robert Muir, M.D., F.R.S. *Director of Clinical Laboratory and Lecturer on Clinical Pathology*—J. Shaw Dunn, M.A., M.D. *Assistant Pathologists*—George Haswell Wilson, M.B., Ch.B.; J. W. M'Nee, M.D., Ch.B. *Vaccinator*—John Lindley Carstairs, M.A., M.B., C.M. *Medical Superintendent*—Donald J. Mackintosh, C.B., M.V.O., M.B., LL.D. *Matron*—Miss Helen Gregory Smith, R.R.C. *Secretary and Treasurer*—J. Matheson Johnston, C.A., 87 Union Street. The hour of visit is 9 A.M. The Dispensary for Out-Patients is open daily at 2 P.M. Vaccination—Mondays and Thursdays at 12 noon. The station is recognised by the Local Government Board. Fee, £1 ls. It is recommended that when practicable students should attend the vaccination course during the winter session.

According to the present arrangement admission to the practice of this Infirmary is subject to the following regulations:—

#### EXCERPT FROM THE RULES REGARDING TICKETS FOR HOSPITAL ATTENDANCE AND CLINICAL INSTRUCTION.

1. No student shall be permitted to attend the Infirmary without a Ticket duly signed by the Superintendent.

2. The Fees payable shall be as follows:—

1st. Every Student shall pay a fee of £7 for Hospital attendance, and this shall be kept quite apart from the fees for Clinical Instruction.

2nd. Students who hold a Life Ticket from another Hospital shall be permitted to enter for a six months' course of the *Hospital only*, on payment of a fee of £1 ls., or a three months' course for 10s. 6d.

3rd. Every Student shall pay £2 2s. for each Summer, and £3 3s. for each Winter Session of Clinical Instruction, or such other fees as may be fixed from time to time by the Managers in conjunction with the University Court.

3. At the beginning of each Course the Student shall give intimation, to the Superintendent, of the Clinical Teacher whose course he wishes to attend, by filling up a form which will be supplied on application.

GLASGOW ROYAL INFIRMARY.—Number of beds (including the Ophthalmic Institution), 835. Special wards are set aside for the treatment of Venereal Diseases, Diseases of Women, Diseases of the Throat and Nose, Diseases of the Ear, and Diseases of the Skin. *Honorary Consulting Physicians*—J. Wallace Anderson, M.D.; J. D. MacLaren, M.D.; George S. Middleton, M.A., M.D., LL.D.; Alexander Morton, M.A., M.D. (Diseases of the Skin); A. Wood-Smith, M.D. *Honorary Consulting Surgeons*—John Barlow, M.D.; David N. Knox, M.B.; Quintin M'Lennan, M.B.; David Newman, M.D.; Robert Fullerton, M.D. (Diseases of the Throat and Nose). *Physicians*—Prof. Walter K. Hunter, M.D., D.Sc.; John M. Cowan, M.D., D.Sc.; J. B. Mackenzie Anderson, M.A., M.B.; William R. Jack, B.Sc., M.D.; John Henderson, M.D. *Surgeons*—James Alexander Adams, M.D.; James Hogarth Pringle, M.B.; Henry Rutherford, M.A., M.B.; Peter Paterson, M.B.; Prof. Robert Kennedy, M.D., D.Sc.; A. N. M'Gregor, M.D.; Thomas Kay, M.B. *Assistant Physicians*—James Scott, M.A., M.B., Ch.B.; Archibald W. Harrington, M.D.; William Watson, M.D. *Dispensary Physicians*—D. H. Macphail, M.B., Ch.B.; Arthur M. Crawford, M.B.; David Macdonald, M.D.; John C. Middleton, B.Sc., M.B.; Alexander M. Kennedy, M.D. *Extra Dispensary Physicians*—Agnes Picken-Salmon, M.B.; T. Stewart Barrie, M.B.; J. M. Morgan, M.B. *Assistant Surgeons*—John Patrick, M.B.; John A. C. Macewen, B.Sc., M.B. *Dispensary Surgeons*—A. G. Faulds, M.B.; James Battersby, F.R.C.S. (Eng.); Donald Duff, F.R.C.S. (Edin.); Milne M'Intyre, M.B., Ch.B.; Alexander J. Couper, M.B., Ch.B.; Robert S. Dewar, M.A., M.B., Ch.B. *Extra Dispensary Surgeons*—William C. Mackie, M.B.; J. A. G. Burton, M.B.; P. H. Robertson, M.B.; James Taylor, F.R.C.S. (Edin.); John MacIntyre, F.R.C.S. (Edin.). *Diseases of Women*—G. Balfour Marshall, M.D.; Prof. John M. Munro Kerr, M.D. *Surgeons for Diseases of the Eye*—A. Maitland Ramsay, M.D., and John Rowan, M.B. *Diseases of the Throat and Nose*—John Macintyre, M.B., F.R.S.E. *Diseases of the Ear*—James Kerr Love, M.D. *Diseases of the Skin*—George M'Intyre, M.B. *Venereal Diseases*—David Watson, M.B. *Pathologist*—Prof. John H. Teacher, M.A., M.D. *Bacteriologist*—J. Archd. Campbell, L.R.C.P.S. *Assistant in Pathological Institute*—J. A. G. Burton, M.B. *Anaesthetists*—H. P. Fairlie,

M.D.; F. L. Napier, M.B.; A. S. Richmond, M.B.; William Laird, L.R.C.P.; Ellen B. Orr, M.B. The hour of visit is 9 A.M. The hours at the dispensary for out-patients are as follow:—*Diseases of the Ear*—James Adam, M.D.; James Harper, M.A., M.B., and J. W. Leitch, M.B. 3.30 P.M., Tuesday and Friday. *Diseases of the Throat and Nose*—P. N. Grant, M.B., and John Donald, M.D. 9.30 A.M., Tuesday and Friday. *Diseases of the Skin*—George M'Intyre, M.B. 10 A.M., Monday, Wednesday, and Friday. *Venereal Diseases*—John Gilchrist, L.R.C.P., etc. Monday, Wednesday, and Friday, at 11 A.M. *Diseases of Women*—James Taylor, F.R.C.S. Ed.; A. Louise M'Ilroy, M.D., D.Sc.; James Hendry, M.B. Monday at 9.30 A.M. and on Thursdays at 3.30 P.M. *Diseases of the Teeth*—William Taylor, L.D.S.; W. R. Taylor, L.D.S., at 9 A.M. on Wednesdays. *Vaccination*—Hugh H. Borland, M.B., D.P.H., 12 noon, Monday and Thursday. Fee £1 1s. The station is recognised by the Local Government Board.

The Electric Pavilion contains all the most recent apparatus for the diagnosis and treatment of disease by Electricity. *Consulting Medical Electrician*—John Macintyre, M.B. *Medical Electrician*—James R. Riddell, F.R.F.P. and S.G. *Assistant Medical Electricians*—Samuel Capie, M.B.; Katharine M. Chapman, L.R.C.P. Ed.; J. Gibson Graham, M.A., M.D.; A. M. Kennedy, M.D.

#### EXCERPT FROM THE RULES REGARDING TICKETS FOR HOSPITAL ATTENDANCE AND CLINICAL INSTRUCTION.

Students shall be permitted to attend the Infirmary and the Classes for Clinical Instruction therein on conforming to the rules hereinafter stated.

Each student shall obtain from the Superintendent a ticket of admission to the Infirmary and to a class or classes for clinical instruction, on payment of the following fees, viz.:

(a) For Infirmary Attendance, Dispensary, etc.—

A. For Perpetual Ticket, £7.

B. For Season Tickets, Six Months, £2 2s.

„ „ Three Months, £1 1s.

Separate payments by a Student for Season Tickets amounting in all to £7 7s. shall, however, entitle a student to obtain from the Superintendent a Perpetual Ticket in exchange therefor.

(b) For Clinical Instruction—

Two Terms, or Six Months, £3 10s.

One Term, or Three Months, £1 15s.

(c) Students who have paid to any other Hospital in the United Kingdom or elsewhere the fees necessary to obtain a Perpetual Ticket for such Hospital, shall be admitted as Students of the Royal Infirmary on payment of a Hospital Entrance Fee of £1 1s. for attendance for six months, and 10s. 6d. for attendance for three months, and where a class for Clinical Instruction is taken, he shall pay in addition the fees for such instruction as above stated.

Each course of Clinical Instruction shall extend over a period of six months, or two terms of three months each, in Winter, and three months, or one term, in Summer. The date of commencement of each Course will be made known from time to time.

At the beginning of each Course the Student shall give intimation of the Clinical Teacher and Dispensary Teacher whose classes he wishes to attend, by enrolling his name in a Register which the Superintendent shall keep for that purpose.

*Superintendent*—J. Maxtone Thom, M.B., D.P.H. *Matron*—Miss J. Melrose, R.R.C. *Secretary and Cashier*—R. Morrison Smith, C.A., Royal Infirmary Office, 135 Buchanan Street.

ROYAL HOSPITAL FOR SICK CHILDREN, GLASGOW (204 cots—about 5,000 children treated annually).—*Consulting Staff: Physicians*—Geo. S. Middleton, M.A., M.D., LL.D. ; R. Barclay Ness, M.A., M.B. ; J. B. Mackenzie Anderson, M.A., M.B., C.M. *Surgeons*—Sir T. Kennedy Dalziel, M.B., C.M. ; R. H. Parry, F.R.C.S.(Edin.) ; James H. Nicoll, M.B., C.M. *Pathologist*—Professor Robert Muir, M.A., M.D., F.R.C.P.E. *Acting Staff: Visiting Physicians*—Leonard Findlay, M.D., D.Sc. *Extra and Assistants*—A. Bankier Sloan, M.D. ; James R. C. Greenlees, B.A., M.B., B.Sc. ; Agnes W. Cameron, M.B.(Glas.), D.P.H.(Camb.) ; Ethel Crawford, M.B., Ch.B. *Visiting Surgeons*—Alfred A. Young, M.A., M.B., C.M. ; Alexander MacLennan, M.B., C.M., L.M. *Extra and Assistants*—M. Logan Taylor, M.B., Ch.B. ; William A. Campbell, M.B., Ch.B.(Glas.), F.R.C.S.(Eng.) ; J. Mill Renton, M.B., Ch.B.(Glas.), F.R.C.S.(Edin.). *Pathologist* —. *Aurist and Laryngologist*—J. Walker Downie, M.D. *Oculist*—John Rowan, M.B., C.M.

*Dentist*—Leslie C. Broughton-Head, M.B., Ch.B. (Glas.), L.D.S. (Eng.). *Medical Electrician* ——. *Dispensary Staff: Physicians*—A. Bankier Sloan, M.D.; James R. C. Greenlees, B.A., M.B., B.Sc.; James Girdwood, M.D.; Agnes W. Cameron, M.B. (Glas.), D.P.H. (Camb.); W. Hendrie Kirk, M.B., Ch.B.; Geoffrey B. Fleming, B.A., M.B., B.O.; J. W. M'Nee, M.B., Ch.B.; Samuel J. Moore, M.B., Ch.B.; Mary T. Moore, M.B., Ch.B.; Ethel Crawford, M.B., Ch.B.; Mabel Jones, M.B., Ch.B. *Surgeons*—M. Logan Taylor, M.B., Ch.B.; Wm. Rankin, M.A., M.B., Ch.B.; David Dickie, M.B., Ch.B. (Glas.), F.R.C.S. (Edin.); William A. Campbell, M.B., Ch.B. (Glas.), F.R.C.S. (Eng.); J. Mill Renton, M.B., Ch.B. (Glas.), F.R.C.S. (Edin.); Charles Bennett, M.B., Ch.B.; William A. Sewell, M.B., Ch.B. *Aurists and Laryngologists*—James Harper, M.A., M.B., Ch.B.; William G. Neill, M.A., Ch.B. *Oculist*—Walter H. Kiep, M.B., Ch.B. *Dentists*—Leslie O. Broughton-Head, M.B., Ch.B. (Glas.), L.D.S. (Eng.); Herbert E. Wilkie, L.D.S. *Matron*—Miss Mary L. Cameron. *Medical Superintendent*—George Hunter, L.R.F.P.S.G. *Hon. Secretary*—Robert F. Barclay, 91 West Regent Street, Glasgow. *Hon. Treasurer*—Alan E. Clapperton, LL.D., 91 West Regent Street, Glasgow.

The University Court has recognised the Hospital under the relevant Sub-sections of Section VIII. of Medical Ordinance No. XXXI. for the purpose of Hospital attendances and for clinical study during the fifth and final year of the curriculum.

In each of the three terms of the University Session special Courses of Lectures and Clinical Instruction on the Medical and Surgical Diseases of Children, meeting the requirements of Glasgow University Medical Ordinance (No. XXXI.), will be given in the Hospital. The class will meet daily at an hour to be arranged, and will consist of at least 15 medical and 15 surgical meetings. Students attending the Hospital in their third year of clinical study will be given every opportunity of taking part in the regular clinical work in the Wards under the supervision of the Visiting Physicians and Surgeons. Arrangements will be made from time to time for Post-Graduate Classes and Lectures. While attending Hospitals for Infectious Diseases, or coming in contact with infectious disease of any kind, students must not attend clinics, lectures or demonstrations at the Hospital or Dispensary or Country Branch.

The Dispensary (11 West Graham Street—about 14,000 children treated annually) is open daily at 11 for the treatment of outdoor patients. Students are admitted to the clinics of the Physicians and Surgeons.

The Country Branch of the Hospital is at Drumchapel, Dumbartonshire. It is visited regularly by members of the Hospital Staff.

Fee, admitting to Hospital and Dispensary for one term, £1 1s.; or for whole year, £2 2s. Fee for clinical instruction and said special course, £1 15s. each term. This special course must be taken by those who desire a qualifying ticket.

Students will be enrolled by, fees are payable to, and further information may be obtained from, the Medical Superintendent, Royal Hospital for Sick Children, Yorkhill, Glasgow.

EYE INFIRMARY, 174 Berkeley Street and 80 Charlotte Street.—Hour of Visit, 1 P.M. daily. Fee for six months, £1 1s.; for twelve months, £2 2s.

OPHTHALMIC INSTITUTION, 126 West Regent Street.—Hour of Visit, 2 P.M. Fee for a qualifying course, £2 2s.

DISEASES OF THE EAR; DISEASES OF THE THROAT AND NOSE; DERMATOLOGY; INSANITY; VENEREAL DISEASES—see Index.

At Gartloch Asylum, Gartcosh, Senior Medical Students may obtain appointments as Resident Clinical Clerks. These appointments are made in April and October for six months. Board and lodging with railway fare to and from Glasgow are allowed, and Classes can be attended in Glasgow in the earlier part of the day. Application should be made to the Medical Superintendent, W. A. Parker, M.B., considerably in advance.

FEVERS.—Clinical Instruction in Fevers is given at the Ruchill Hospital and the Belvidere Hospital. Fee for a course extending over ten weeks, once a week, £1 1s. Apply to City Chamberlain, 285 George Street, Glasgow.

## FACULTIES IN THE UNIVERSITY.

The whole classes of the University are arranged in five Faculties—Arts, Science, Medicine, Law, and Divinity.

### I.—FACULTY OF ARTS.

The Faculty of Arts comprehends four Departments of study, viz.:—A. *Language and Literature*, embracing the classes of Humanity, Greek, English, French, German, Italian, Russian, Celtic, Hebrew and Semitic Languages; B. *Mental Philosophy*, comprising Logic and Metaphysics, Moral Philosophy, Political Economy, Education; C. *Science*, including Mathematics, Natural Philosophy, Astronomy, Chemistry, Zoology, Botany, Geology, Geography; D. *History and Law*, containing History, Constitutional Law and History, Roman Law, Scottish History and Literature.

#### A. LANGUAGE AND LITERATURE.

##### I. HUMANITY.

The original foundation of this Professorship is not extant; but it appears from the records of the College that it must have been instituted previous to the year 1637. The Professor is elected by the University Court.

*Professors from the year 1706.*

1706. Andrew Rosse.	1815. Josiah Walker, M.A.
1735. George Rosse.	1831. William Ramsay, M.A.
1754. George Muirhead.	1863. George G. Ramsay,
1773. Wm. Richardson, M.A.	M.A., LL.D., Litt.D.
1906. JOHN SWINNERTON PHILLIMORE, M.A., LL.D.	

The Humanity Class consists of three classes—the *Ordinary*, the *Intermediate Honours*, and the *Second Year Honours Class*, which latter two classes all members of the Ordinary Class have the option of attending. Students who do not require a Public Certificate for the Degree or other purpose may attend any class as Private Students. Private Students are those who attend the class without taking part in the class work.

In all classes the students prepare certain work prescribed, and are liable to be examined orally every day. In the Honours Class the business is conducted partially by oral examination, but mainly by Lectures and Prelections delivered by the Pro-

fessor. Exercises in Latin Prose make part of the class-work; *Unseens* are set from time to time, and Latin Verse Composition is taught to those that desire it.

#### ORDINARY CLASS.

The ORDINARY CLASS meets daily at 9 A.M. All students attending the Ordinary Class have the option also of attending the Honours Class from 11 A.M. to 12 noon, or the Intermediate Class from 1 to 2 P.M. One day a week the Class will meet in sections, of which one will study Roman Britain (a subject for the Degree); and the other two, Prose Composition.

#### INTERMEDIATE CLASS, 1 P.M.

This class is for those who take a Double Course (Intensive) and are examined on the Higher Standard for the Ordinary Degree. Students commencing in Honours may also attend this class, in which chiefly prescribed Degree work is read. Honours Students of the Second Year and Ordinary Students are free to attend at 1 P.M. if they like. Students commencing in Honours are free to attend also at 11 A.M.

The Roman History Class is alternative to the Humanity Intermediate, and students who intend to take Honours in Classics are recommended to attend it in their second year.

#### HONOURS CLASS, 11 A.M.

In this class more advanced work is read.

Students are allowed to attend as Private Students, *i.e.* as listeners only, without doing any of the work of the class; but in that case they do not receive tickets qualifying for the Degree. The class also meets in small sections for Private Readings; and students are tutorially instructed in composition.

Honours Students, wishing to do Latin Prose for the Degree or other purposes, may attend for Latin Prose only.

The subjects for the Session 1918-19 will be as follows:—

1. ORDINARY CLASS, AT 9 A.M.—Plautus, *Captivi*; Terence, *Phormio* and *Hecyra*; Virgil, *Georg.* II and III; Apuleius *Cupid and Psyche*, Purser's edition; History of Literature, Antiquities, Grammar, Composition, etc.

2. HONOURS CLASS, (1) Intermediate (*see also under* Roman History)—Terentian Metric; Cicero, *Select Speeches*; Horace, *Satires* and *Ars Poetica*; Tibullus; Propertius.

(2) Second Year—Cicero, *de Oratore*; Lucan; Claudian.

## ROMAN HISTORY AND ANTIQUITIES.

This Lectureship was instituted by the University Court in 1912.

*Lecturer.*

1912. STEUART N. MILLER, M.A.

ORDINARY CLASS, 9 A.M. ONE DAY WEEKLY.

This class is for those who take Roman Britain as a subject for the Ordinary Degree in Latin (see page 258).

INTERMEDIATE AND HONOURS CLASS, 1 P.M. DAILY.

This class is for (a) those who take Roman History as the subject of their Double Course in Latin (see page 259); (b) those in their first year of Honours Latin (alternative to Intermediate Language and Literature); (c) those who take Roman History as a subject for Honours History (see p. 279). In session 1918-19 courses of lectures will be given on (a) Special Period B (see p. 259), viz., From the death of Nero to the death of Marcus Aurelius (A.D. 68 to 180); (b) Roman Military and Provincial Administration with special reference to Gaul, Germany and Britain. Tutorial classes will also be formed to study texts and inscriptions, and the archaeology of Roman Scotland.

## II. GREEK.

This Professorship was founded by the College in or about the year 1581. The Professor is elected by the University Court.

*Professors from the year 1704.*

1704. A. Dunlop, LL.D.	1838. Edmund L. Lushington, LL.D.
1746. James Moor, LL.D.	1875. R. C. Jebb, D.C.L., Litt.D., LL.D.
1774. John Young, M.A.	
1821. Sir Daniel K. Sand- ford, M.A.	1889. G. G. A. Murray, M.A., LL.D. 1899. John S. Phillimore, M.A.
1906. GILBERT A. DAVIES, M.A.	

*Lecturers.*

William Rennie, M.A.

Arnold W. Gomme, B.A.

The Greek Class consists of three divisions, the Ordinary, the Intermediate, and the Honours. Students not requiring a Public Certificate may attend as Private Students, *i.e.* without doing the work of the class. Students enrolled in one division are permitted to attend the meetings of another division in whole or in part.

All students should possess the following books:—*Ancient Atlas* (convenient Atlases are published by Dent, in *Everyman's Library*, and by Murray); *Greek Lexicon*, Liddell & Scott (large or intermediate edition—the small edition is not sufficient); some History or Primer of Greek Literature; *First Greek Grammar*, Rutherford (with *Greek Moods and Tenses*, Goodwin, for Honours work).

Students are recommended to get Gow's *Companion to the School Classics*, and Seyffert's *Dictionary of Classical Antiquities, etc.*, translated by Nettleship and Sandys; or, in place of Seyffert, Gardner and Jevons' *Manual of Greek Antiquities*.

#### ORDINARY DIVISION.

This is the ordinary qualifying class for graduation; all members of it must have passed the Preliminary Examination in Greek on the higher standard, or an equivalent examination.

All students requiring a certificate of attendance must duly perform the work of the class; but those who do not require a certificate, or those who have not passed the Preliminary Examination, may attend as Private Students, *i.e.* without doing the work.

The class meets at 8 A.M. every week-day except Saturday.

The class is liable to be examined orally or on paper every day. The work done includes the reading of Greek Authors; Greek Prose Composition; Written Exercises in translation; Greek History, Language, Antiquities, and Literature.

See also under Greek History and Archaeology.

#### INTERMEDIATE DIVISION.

This division is primarily intended for students taking a second year's course for the Ordinary Degree. It serves also in most cases for the second year's course (or first year's Honours course) of those who are reading for Honours in Classics without intending to take the Higher Ordinary examination, though such students may, with the sanction of the Professor, enter the Honours division without having attended the Intermediate. The Intermediate division is a qualifying course for Honours.

The division meets at 12 noon every week-day except Saturday.

## HONOURS DIVISION.

The Honours division meets at 10 a.m. on Monday, Wednesday and Friday.

See also under Greek History and Archaeology.

*Subjects for Session 1918-19.*

ORDINARY.—The prescribed books.

INTERMEDIATE.—The prescribed books.

HONOURS.—Lyric Poets before Pindar; Theocritus; Aristotle, *Rhetoric*, III.; Demosthenes, *Orations*, 15, 16, 17.

Students will be given private hours for Prose.

A voluntary class for Greek Verse will be formed.

The following texts and editions are suggested:

Homer, Oxford text, or *Iliad*, ed. Monro, *Odyssey*, ed. Merry; Plato, Oxford text; Aeschylus, Oxford text or Macmillan's edition; Demosthenes, Oxford text; Aristophanes, Oxford text or single-play editions by Merry.

## I. HELLENISTIC GREEK.

Lecturer—WILLIAM RENNIE, M.A.

This class will meet 3 or more hours a week, probably at 11. The work of session 1918-19 will be as follows:

A. Acts of the Apostles; Epistle to the Hebrews; Justin Martyr, *Apology*; Aelian, *Varia Historia*; Lucian, *Timon* and *Menippus*; Phrynichus and Moeris.

B. Griechische Papyri (in Lietzmann's *Kleine Texte*); Milligan's *Selections from the Papyri*.

C. Lectures:

The Moods and Tenses in Attic and later usage.

The Cynic Philosophy and Propaganda.

The Elementary Principles of Textual Criticism.

This class may be taken as an alternative to the Intermediate Class in Greek Language and Literature. No student will be allowed to qualify for the Higher Ordinary Examination in this subject who has not already passed the degree examination in Greek on the Ordinary Standard; but any one who desires may attend as a private student.

For the purposes of this class the following books may be suggested as specially useful:—Moulton's *Prolegomena*, or Radermacher's *Neutestamentliche Grammatik*; Wendland's *Hellenistisch - Römische Kultur*; R. D. Hick's *Stoic and Epicurean*.

## II. NON-QUALIFYING GREEK.

*Lecturer*—A. W. GOMME, B.A.

This class is intended for students who are over 20 years of age and have passed their full preliminary examination for graduation. The object is to provide an introduction to the study of Greek for those who have had no opportunity of learning it before entering the University; but those who join the class will be expected to be acquainted with the principal features of Greek accidence.

Meetings will be held three times a week, the hours to be arranged with the class.

Books required: Liddell and Scott's *Lexicon* (large or intermediate edition), a classical Atlas (*e.g.* that in *Everyman's Library*), Rutherford, *First Greek Accidence* and *First Greek Syntax*.

## GREEK HISTORY AND ARCHAEOLOGY.

This Lectureship was instituted by the University Court in 1911.

*Lecturer.*

1911. W. R. Halliday, B.A., B.Litt.

1914. J. B. HUTTON, M.A.

## INTERMEDIATE CLASS IN GREEK HISTORY AND ARCHAEOLOGY.

This class may be taken as an alternative to the Intermediate Class in Greek Language and Literature, or in preparation for the Greek History paper in Honours Classics. No student will be allowed to qualify for the Higher Ordinary Degree in this subject who has not already passed the examination for the Ordinary Degree in Greek.

Private Students are allowed to attend the class on the conditions stated with respect to the Humanity Honours Class (see p. 86).

The class will meet at hours to be arranged at the beginning of the session.

*Session 1918-19.*

The period to be studied will cover Greek History down to 479 B.C. Tutorial classes will be arranged.

The Prescribed Texts will be: Herodotus VII. 172-183, 188-239, VIII. 1-25, 49-97; Aeschylus, *Persae*; Aristotle, *Constitution of Athens*, Chs. I.-XXII.

## III. ENGLISH LANGUAGE AND LITERATURE.

This Chair was founded by Ordinance of the Universities Commission (1858) of date 25th November, 1861, and is in the gift of the Crown.

*Professors.*

1862. John Nichol, LL.D.

1889. Andrew Cecil Bradley, M.A., LL.D.

1900. W. A. Raleigh, M.A.

1904. W. MACNEILE DIXON, M.A., Litt.D.

N.B.—*Students are strongly advised to take the English Literature Class, as has hitherto been the custom, in the later part of their Course. Those who, for special reasons, desire to take it early should consult the Professor before taking out their class-tickets.*

I. ORDINARY CLASS.—This class will meet on Mondays, Tuesdays, Wednesdays, and Thursdays, at 11 A.M.

Lectures will be given on the following subjects:—1, Rhetoric; 2, Chaucer; 3, Shakespeare; 4, The Classical Age; 5, The Age of Wordsworth; 6, History of the English Language.

The class will meet in sections on Fridays for *viva voce* examinations.

The following texts are prescribed for the work of the class, and for the Degree Examinations: Shakespeare, *Macbeth*, *Twelfth Night*, *The Tempest*; Chaucer, *Prologue and Knights Tale*; *The English Parnassus*, Dryden to Gray; Palgrave's *Golden Treasury*, Bk. IV.; Johnson, *Lives of Dryden and Pope*; Byron, *Childe Harold's Pilgrimage*, Cantos III. and IV.

II. INTERMEDIATE CLASS.—The class will meet on Mondays, Tuesdays, Wednesdays and Thursdays at 11 A.M.

Students who wish to graduate in Honours are strongly recommended to take this class, but, if proceeding to the degree of M.A. with Honours in English Language, Literature and British History, must substitute for the Language lectures one day a week special lectures on two days a week. (Hours to be arranged at the beginning of the Session.) Students joining this Honours Language Class are required to take an examination at the beginning of the Session in (a) Elementary O.E. Grammar, (b) Translation (Prose Texts in A. S. Cook's *First Book of Old English*).

Lectures will be given in the following subjects:—1, Literary Theory; 2, Shakespeare; 3, Wordsworth; 4, The Seventeenth Century; 5, Eighteenth Century Poetry and Prose; 6, The English Language.

The following texts are prescribed for the work of the class and for the Degree Examinations: Shakespeare, *Hamlet*, *Romeo and Juliet*, *King Lear*; *The English Parnassus*, Dryden to Wordsworth; Palgrave's *Golden Treasury*, Bks. II. and III.; Boswell's *Life of Dr. Johnson*; Lamb's *Essays of Elia*.

Extra tutorial lectures will be given during part of the Session on Fridays.

A certain standard of attainment in class work will be required of students in the Ordinary Class who propose to proceed to the Intermediate Class.

III. HONOURS CLASS.—The class meets on Mondays and Tuesdays at 12 noon for the study of special authors and selected subjects connected with the history of English Literature, and on Wednesdays and Thursdays at 12 noon for the study of Anglo-Saxon and Middle English.

The hours for tutorial work are by special arrangement.

BRITISH HISTORY CLASS FOR HONOURS IN ENGLISH.—See page 118.

ITALIAN FOR HONOURS IN ENGLISH.—See page 99.

DEGREE EXAMINATIONS.—The subjects will be found on page 273.

Students who propose to graduate with Honours in Philosophy and English are required to take only the papers in English Literature and British History (or Italian), and to write a Thesis.

## ENGLISH LANGUAGE.

*Lecturer.*

1907. RITCHIE GIRVAN, M.A.

This department provides instruction for the M.A. degree with Honours (a) in English, and (b) in Germanic Languages. The work of the department is organised on the basis of a two years' course. A certain amount of the work done is common

to both departments. Students reading for Honours in English meet for the first year course on Wednesdays and Thursdays at 12 noon (as stated above), and for the second year course at an hour to suit the convenience of those concerned (usually 10 o'clock). Students for Honours in Germanic languages will take advanced instruction at an hour and on days to be later determined. The latter should consult the lecturer at the earliest possible opportunity. All the advanced work in Gothic and in Germanic Philology will, in the meantime, be done in this department.

The work for session 1918-19 is as follows:

- I. FIRST YEAR.—1. Sweet: *Anglo-Saxon Reader*.  
 2. Emerson: *Middle English Reader*.  
 3. Old English Grammar.  
 4. History of English Language.

And in addition for students in the Germanic group.

5. Chancer, esp. *The Canterbury Tales*.  
 6. *Havelok the Dane*.  
 7. Lectures on Principles of Linguistics  
 and Early English Literature.

*This First Year Class is a qualifying Higher Ordinary Class in English, and may be taken as an alternative to the Intermediate Class (p. 92).*

II. SECOND YEAR.—1 and 2 as above (advanced work).

3. *Beowulf*.  
 4. Lectures on English Historical Grammar, Metric, etc.

And in addition for students of the Germanic group.

5. Gothic—Grammar and texts.  
 6. Translation and discussion of selected Degree texts in Old and Middle English.  
 7. Lectures on Principles of Germanic Philology.

Exercises will be held from time to time in grammar and sight translation.

For the subjects for degree see page 273. A list of text-books recommended for study will be announced in class. Advanced students will be advised privately as to their reading.

IV. FRENCH LANGUAGE AND LITERATURE.<sup>1</sup>

This Lectureship was instituted by the University in 1895.

*Lecturers.*

1895. Alfred Mercier, L. ès L.

1898. CHARLES MARTIN, M.A. (Paris), O.I.P.

I. ORDINARY CLASS.—This Class meets at 12 noon. *It is for the most part conducted in French.*

The work of the class will comprise the following subjects :

(a) *Literature*.—Une période de la littérature moderne.

(b) Histoire de la civilisation française.

Texts: (a) Seventeenth Century: Corneille, *Horace*; Racine, *Andromaque*; Molière, *Les Femmes savantes*; La Fontaine, *Fables*; La Bruyère, *Caractères*. (b) Nineteenth Century: Auzas, *Poètes français du xix<sup>e</sup> siècle* (Oxford Press); Musset, *On ne badine pas avec l'amour*; V. Hugo, *Notre Dame de Paris*; Balzac, *Eugénie Grandet*; Flaubert, *Salammô*; Loti, *Pêcheurs d'Islande*. (c) History: Texts (as prescribed during term).

*Language*.—(a) Explication de textes.

(b) Leçons sur l'histoire de la langue française.

(c) Questions de langue, de prononciation, etc.—Thèmes.—Compositions françaises.—Version.

II. INTERMEDIATE (OR HIGHER ORDINARY) CLASS.—The class meets at 10 A.M.

(a) *Literature*.—Une période de la littérature moderne.

(b) Histoire générale, 1600-1900.

Texts: (a) Early Period: *Ronsard et les Poètes de la Pléiade* (Gowans & Gray). (b) Seventeenth Century: Corneille, especially *Horace*; Racine, especially *Andromaque* et *Britannicus*; Molière, especially *Les Précieuses ridicules* et *Les Femmes savantes*; La Bruyère, *Caractères*. (c) Nineteenth Century:

<sup>1</sup>The Senate, with the approval of the University Court, have agreed that in the case of students enrolled in the Intermediate and Honours Class in French, German, or Italian, and on the recommendation of the Professors or Lecturers whose classes they are attending, permission be granted by the Senate to spend the third term of the academic year, for the purpose of study, in France, Germany, or Italy. In all cases reports satisfactory to the heads of the respective departments must be received regarding the diligence and progress of the students in their studies abroad. Applications to be addressed to the Clerk of Senate.

Musset, *Poésies* (Gowans & Gray); V. Hugo, *Hernani*, *Notre Dame de Paris*; Balzac, *Le Père Goriot*; Loti, *Pêcheurs d'Islande*; D'Avenel, *Les Français de mon temps* (Nelson).

*Language.*—Histoire de la langue française. Grammaire historique (Text-book: F. Brunot, *Précis de Grammaire historique de la langue française* (Masson). Versification.

Questions de langue, etc., Thèmes, Versions, Compositions françaises, Explications de textes.

### III. HONOURS CLASS.—This Class meets at 10 A.M.

A. Translation from Old French, and from Modern French into English, and from English into French.

B. The language and versification of prescribed texts (Old and Modern French), the History of the Language, and Historical French Grammar. Reading recommended: Brunot, *Histoire de la langue française* (Colin), vols. I. and II.; F. Brunot, *Précis de Grammaire historique de la langue française* (Masson); L. Clédat, *Manuel de phonétique et de morphologie historique du Français* (Hachette).

#### C. Prescribed Texts:

I. EARLY PERIOD: *Chrestomathie du moyen âge*, ed. G. Paris (Hachette); *Chanson de Roland*, ed. G. Paris (Hachette); *La Chastelaine de Vergi* (Champion); François Villon, *Œuvres*, ed. A. Longnon (Champion); Montaigne, *Extraits*, ed. Jeanroy (Hachette); *Pages choisies de Rabelais*, ed. Huguet (A. Colin).

II. EIGHTEENTH CENTURY: Marivaux, *Théâtre* (Dent); Rousseau, *Lettre à d'Alembert sur les spectacles*, ed. Brunel, (Hachette); Voltaire, *Charles XII*; Chénier, *Poésies* (Gowans & Gray); *Choix de lettres du XVIII<sup>e</sup> siècle*, ed. Lanson (Hachette).

III. NINETEENTH CENTURY: Lamartine, *Œuvres choisies* (*Poésies*), ed. Waltz (Hachette); V. Hugo, *Morceaux choisis* (*Poésies*) (Delagrave), *Notre Dame de Paris*, *Les Travailleurs de la mer*; A. de Vigny, *Poésies* (Gowans & Gray); Chatterton, *Cinq Mars*; Leconte de Lisle, *Poèmes barbares* (Lemerre); *Anthologie des poètes français (XIX<sup>e</sup> siècle)* (Lemerre).

N.B.—Tutorial Classes meet for the study of texts, the correction of pronunciation and of exercises, for reading, and

for conversation on the subject of the class lectures. They form part of the regular course of instruction in French.

A class library provided with books of reference is open to the students from 9 a.m. till 5 p.m.

*Private Students.*—In common with other subjects, the French Classes are open to students who do not intend to graduate. Such students are at liberty to attend the Literature or the Language Lectures in the Ordinary Class (Fee, £2 2s.), or the Lectures in the Higher or Honours Classes (Fee, £4 4s.).

## V. GERMAN LANGUAGE AND LITERATURE.<sup>1</sup>

This Lectureship was instituted by the University in 1899.

### *Lecturers.*

1899. Alexander Tille, Ph.D.

1900. George P. Thistlethwaite, B.A., Ph.D.

1907. HERBERT SMITH, M.A., Ph.D.

**I. ORDINARY CLASS.**—This class meets at 10 a.m. in the Conveyancing Class Room, and the course qualifies for graduation in Arts. Students who do not intend to graduate may take either the Language section or the Literature section of the class alone. The fee for one section of the class is £2 2s.

The work will be done in German.

Women students have the option of attending either this class or the class at Queen Margaret College.

The following subjects will be treated :

### *A. Language.*

1. Composition.—Weekly exercises in composition will be set.
2. History of the German Language.

### *B. Literature.*

1. German Literature from 1745 to 1832.

2. Reading of: Lessing, *Minna von Barnhelm*, *Nathan der Weise*; Goethe, *Gedichte*, *Götz von Berlichingen*, *Torquato Tasso*, *Dichtung und Wahrheit* (selections); Schiller, *Gedichte*, *Jungfrau von Orleans*, *Wallenstein*, *Braut von Messina*; Schiller and Goethe Correspondence (selections).

<sup>1</sup>See footnote on p. 95.

II. INTERMEDIATE CLASS.—This class meets at 9 a.m. It serves both as a second year's course for the Higher Ordinary Degree and as a second year's course (or first year's Honours course) for the Honours Degree.

The following subjects will be treated :

1. Historical German Grammar.
2. History of the German Drama.
3. Reading of Dramas and Dramaturgical works in connection with the History of the Drama.
4. Middle High German.
5. Goethe's Dramas.
6. Prose Composition.

III. HONOURS CLASS.—This class meets at 9 a.m.

- 1, 2, and 3 (see *Intermediate Class*).
4. Old High German ; Middle High German.
5. Goethe's *Faust*.
6. Prose Composition. Essays.

Special Classes will be held in Old and Middle High German for those taking the Germanic Language Honours Group.

Tutorial Classes will be held in connection with the Ordinary, Intermediate and Honours Classes for the practice of conversation and pronunciation, the correction of exercises and essays and the study of texts, and in connection with the Honours Class also for translation at sight and for Old and Middle High German.

ELEMENTARY CLASS.—An Elementary Class may meet two or three times a week during the two winter terms, for the benefit of those who have passed the full Preliminary Examination.

## VI. ITALIAN LANGUAGE AND LITERATURE.<sup>1</sup>

This Lectureship was instituted by the University Court in 1902.

*Lecturer*—ERNESTO GRILLO, M.A., Litt.D. (Flor.), LL.D.

ORDINARY CLASS.—This class qualifies for graduation.

<sup>1</sup> See footnote on p. 95.

Lectures will be given on the following subjects :

A. *Language*.—History of the Language. Composition. Literary Theories.

B. *Literature*.—Dante. The great Italian Artists of the 16th century. The Italian Cities (*cont.*). Outlines of Italian Literature.

Books: Dante, *La Divina Commedia*; Grillo, *The Italian Poets*; idem, *The Italian Prose-writers*; idem, *Early Italian Poets and Prose-writers*; idem, *Italian Grammar* (Blackie).

Students who do not intend to graduate may attend either the Lessons on Language or the Lectures on Literature on payment of a fee of £2 2s.

Students taking Italian Higher will be placed in the Honours Class, but special work will be prescribed to them.

HONOURS CLASS.—Fifty Lectures will be given on: Special Authors and Subjects connected with the History of Italian Literature; The Italian Cities (*cont.*); The Italian Theatre; The Renaissance in Italy (*cont.*).

Books: Dante, *Purgatorio* and *Paradiso*; Grillo, *The Italian Poets*; idem, *The Italian Prose-writers*; idem, *Early Italian Poets and Prose-writers* (Blackie); idem, *Comparative Italian Grammar* (in preparation).

ITALIAN LITERATURE FOR HONOURS IN ENGLISH.—This class is entirely conducted in English. Fifty Lectures will be given on: The 15th Century Italian Literature and its Relation to English Literature. The Course will include a few Lectures on: Theories of Poetry and Principles of Criticism.

Students wishing to take this Class are not required to pass the Preliminary Examinations in Italian, but an opportunity will be given to them to acquire a reading knowledge of Italian.

An Elementary Class (fee £2 2s.) may meet on Mondays and Thursdays during the first twenty weeks of the Session for the convenience of graduating and non-graduating students. Language and Literature up to the Preliminary Standard.

Students attending the English, French or Latin classes will be admitted free of charge.

Books : Grillo, *Italian Grammar* (Blackie).

The classes are open to both men and women.

#### VII. HEBREW.

(See under Faculty of Theology, p. 190.)

#### VIII. ARABIC.

(See under Faculty of Theology, p. 192.)

#### IX. CELTIC.

The late Rev. Archibald Kelly M'Callum, LL.D., by his holograph will, dated 8th March, 1881, to which were attached three codicils (the last dated 27th January, 1892), directed his Trustees, among other purposes, to devote an annual sum to a Lectureship, or a course of not fewer than fifteen Lectures, on Celtic Literature. He left detailed directions as to certain subjects which were to be among those discussed. The Lecturer was to be appointed by the University Court for a period of three years, and was to be eligible for re-election after a subsequent appointment for three years had been made. Matriculated students and others might attend the Lectures. Dr. M'Callum also directed that his library should be handed over to the University as a nucleus for a Celtic Library for the use of the Lecturers and such students as might attend the Lectures, and any others interested in Celtic Literature. The Library was to be kept separate and designated "The Celtic Lectureship Library," and the sum of £10 to be annually expended in making additions thereto.

In 1910 the Trustees of the late Mr. Alexander Fleming allocated to the University a sum of £5000, and the University Court resolved to use this sum for the further endowment of the Celtic Lectureship. The Court also resolved that in future the Lectureship should be known as the M'Callum-Fleming Lectureship.

*Lecturers*—1900. Professor Magnus Maclean, D.Sc.

1903. Professor Kuuo Meyer, Ph.D.

This lectureship was placed on a new footing by a Provisional Order made by His Majesty's Secretary for Scotland under the provisions of the Private Legislation Procedure (Scotland) Act, 1899, and confirmed by Parliament on 4th August, 1905, by the Glasgow University Order Confirmation Act, 1905.

*Lecturers*—1906. GEORGE HENDERSON, M.A., Ph.D.

1912. GEORGE CALDER, M.A., B.D., D.Litt.

The course qualifies for graduation in Arts. Any student who attends with a view to this must previously have passed a Preliminary Examination in Scottish or Irish Gaelic, or in Welsh, including translations from and into English, with grammatical, literary, and philological questions.

The Celtic Class is in three divisions: Ordinary, Intermediate, and Honours.

The subjects for 1918-19 include:

I. ORDINARY.—1. Gaelic Prose Composition.

2. Grammar, including Phonology and Metrics.

The books recommended are: Calder, *A Gaelic Grammar*; Gillies, *The Elements of Gaelic Grammar*; MacBain, *Outlines of Gaelic Etymology*; Meyer, *A Primer of Irish Metrics* (or "Note on the Metrics, Appendix IV.," pp. 513-519, in *The Songs of Duncan MacIntyre*).

3. *Modern Gaelic Authors*.—Selections from (a) *Teagasg nan Cosamhlachdan, Leabhar nan Cnoc*, or other elementary work; (b) *The Beauties of Gaelic Poetry*. The Dictionaries recommended are those of Macleod and Dewar (or the Highland Society's *Dictionary*), MacAlpine, Armstrong, Macdonald (Herne Bay), and especially MacBain's *Etymological Dictionary*.

4. *Older Gaelic*.—*The Book of Clanranald*. The books recommended as useful for the study of this text are: Dinneen, *An Irish-English Dictionary*; Joyce, *A Grammar of the Irish Language*; The Christian Brothers, *A Gaelic Grammar*; or the larger work of O'Donovan.

5. Occasional Lectures on History, Literature and Philology.

The class meets every week-day except Saturday at 4 p.m.

II. INTERMEDIATE.—This division of the class is for those students who, having passed the Ordinary, take a double course (not a repetition of the Ordinary), or are examined in the

Higher Standard for the Ordinary Degree. Students commencing in Honours attend this class, in which also prescribed degree work is read. For 1918-19 the subjects include :

Bergin's *Stories from Keating's "History of Ireland."*

Strachan's *Stories from the Táin.*

Recommended are Pokorný's *A Concise Old Irish Grammar* ; O'Connell's *A Grammar of Old Irish* ; and Thurneysen's *Handbuch des Alt-Irischen* ; Strachan's *Old Irish Paradigms.*

The class meets on Monday, Wednesday, and Friday at 3 p.m., and on Tuesday and Thursday at 4 p.m.

III. HONOURS.—This division of the class is chiefly for the study of older Gaelic, and for transcribing MSS. and Facsimiles.

Extracts are read from :

1. *Auraicept na n-Éces.*

2. The Würzburg Glosses. *Thesaurus Palaeohibernicus*, i. 499-714.

The class meets on Monday, Wednesday, and Friday at 3 p.m. Extra hours are given for the Degree work.

ELEMENTARY.—An elementary class (fee £2 2s.) meets two days per week as may suit the convenience of the students during the first twenty weeks of the session. Language and literature up to the Preliminary Standard.

#### X. RUSSIAN.

A Lectureship in Russian was instituted in 1917 by the University Court, the necessary funds being provided by a donation by Sir William Weir of Glasgow, and by contributions from other citizens, collected by the Rt. Hon. the Lord Provost, Sir Thomas Dunlop, Bart.

*Lecturer*—1917. HUGH GEORGE BRENNAN, M.A.

In Session 1917-18 an Elementary Class was held, and in March, 1918, five students passed the Preliminary Examination in Russian. A class qualifying for degree purposes will be conducted in Session 1918-19. The arrangements of this class may be ascertained at the opening of the session. For information as to books and the work of the classes generally intending students are advised to communicate with the Lecturer.

## B. MENTAL PHILOSOPHY.

## I. LOGIC AND RHETORIC.

This Professorship is one of those founded in the charter of *Nova Erectio* in 1577. The Professor is elected by the University Court.

*Professors from the year 1727.*

1727. John Loudon.	1827. Robert Buchanan, LL.D.
1751. Adam Smith, LL.D.	1864. John Veitch, LL.D.
1752. James Clow.	1895. Robert Adamson, LL.D.
1787. George Jardine, M.A.	1902. ROBERT LATTA, D.Phil.

I. ORDINARY CLASS.—The Ordinary Class meets on three or four days of the week, from 9 to 10 A.M.

The Course of Lectures includes the following subjects:—

(a) LOGIC.—The Principles of Deductive and Inductive Logic. Special reference will be made to Mill's *Logic*, Books I., II., and III.

(b) PSYCHOLOGY.—A general account of the composition and development of Mind, with a more detailed consideration of the process of knowledge.

Students before entering the class are recommended to read some elementary work on Formal Logic, such as Jevons' *Elementary Lessons in Logic*, Russell's *Introduction to Logic*, or Mellone's *Introductory Text-book of Logic*, and also some elementary book on Psychology, such as Stout's *Groundwork of Psychology*, or Loveday and Green's *Introduction to Psychology*.

II. HIGHER ORDINARY CLASS.—The Higher Ordinary Class meets on three or four days of the week, from 10 to 11 A.M.

The Course of Lectures includes:—

(a) LOGIC.—A more advanced study of the Principles of Deductive and Inductive Logic, with special reference to Mill's *Logic* and Bosanquet's *Essentials of Logic*.

(b) HISTORY OF PHILOSOPHY.—In Session 1918-19, Descartes, Spinoza and Leibniz.

Students before entering the Higher Ordinary Class are recommended to read Mill's *Logic*, Books I., II., and III.

III. HONOURS CLASS.—In the Honours Class lectures are given on some of the subjects prescribed for Honours in

Mental Philosophy. During next session this class will meet at 11 A.M., on three or four days weekly.

Students before entering the Honours Class are recommended to read (1) the sections on pre-Kantian philosophy in any history of Modern Philosophy, e.g. Höffding, Falckenberg, Erdmann, or Adamson, and (2) Some history of Greek Philosophy (period before Plato), as Zeller, Burnet, Erdmann, or Gomperz. Janet and Seaille's *History of the Problems of Philosophy* should also be consulted.

Students who desire to take a second course, qualifying for the Ordinary M.A. Degree, in the Department of Logic, may attend either the higher ordinary class or a class in Psychology conducted by the Lecturer in Psychology.

### EXPERIMENTAL PSYCHOLOGY.

*Lecturer*—1908. HENRY J. WATT, M.A., Ph.D., D.Phil.

1. Systematic lectures on the main principles and facts of modern psychology are given concurrently with a series of simple exercises illustrating fundamental methods of experiment and observation, and their results. The course is intended to serve as a general introduction to psychological science. It may be taken as a second course in Logic (q.v.) or as a part of the work for the B.Sc. Examination in Physiology (p. 150). The class meets on three or four days of the week from 10-11 a.m.

*Text-book*—C. S. Myers, *Text-book of Experimental Psychology* (for class work and private study).

*Text-books*—Before entering the class, students are advised to study some larger general introductory work on Psychology, such as G. F. Stout's *Manual of Psychology*; and such general knowledge of psychology will be presupposed in the student at all examinations. For class work the *Text-book of Experimental Psychology* by C. S. Myers is essential. W. B. Pillsbury, *The Fundamentals of Psychology*, 1916, and W. J. King, *The Elements of Statistical Method* should also be consulted.

The psychological laboratory is available for research. Students who wish to take up such work or to obtain practice in experimental observation by independent effort should consult with the lecturer.

## II. MORAL PHILOSOPHY.

This Professorship was founded by the charter of *Nova Erectio* in 1577. The Professor is elected by the University Court.

*Professors from the year 1727.*

1727. Gerschom Carmichael.	1796. Archd. Arthur, M.A.
1730. F. Hutcheson, LL.D.	1797. James Mylne, M.A.
1746. Thomas Craigie.	1839. William Fleming, D.D.
1752. Adam Smith, LL.D.	1866. Edward Caird, D.C.L.,
1764. Thomas Reid, D.D.	LL.D.
1894. SIR HENRY JONES, LL.D., F.B.A.	

*Lecturers*—{ JOHN W. SCOTT, M.A.  
GEORGE A. JOHNSTON, M.A.

*N.B.*—No student, who is proceeding to a degree, shall be allowed to attend the class of Moral Philosophy during the first session of his or her course, except by the express permission of the Professor or the Adviser of Studies in Arts.

The Moral Philosophy Class meets at 8 A.M.

In this class Moral Philosophy is treated both historically and systematically. In connection with the systematic part of the course lectures are given on the metaphysical and psychological implications of Morals, and in connection with the historical part the development of Morals is traced, and an account given of some of the main ethical theories of ancient and modern times.

The work of the class will further comprise the study of Plato's *Republic*, Carlyle's *Sartor Resartus*, and H. Jones' *Idealism as a Practical Creed*.

Students taking Moral Philosophy as a second course for the purpose of ordinary graduation, under the regulations for the Five or Six Subjects Degree, will attend the Intermediate Class. The lectures will deal mainly with the History of Moral Theories, and with more special reference to the ethical doctrines of Aristotle and Kant. The students will be required to study Aristotle's *Ethics*, Kant's *Metaphysics of Morals*, and Green's *Prolegomena to Ethics*.

In the Honours Class of Moral Philosophy the Professor will lecture on some of the subjects prescribed for the Degree with Honours. During next session this class will meet at 12 noon.

## EDWARD CAIRD LECTURESHIP IN POLITICAL PHILOSOPHY.

*Lecturer*—ROBERT A. DUFF, D.Phil.

Under the regulations for graduation a combined course in Political Philosophy and Social Economics counts as a qualifying Higher Ordinary course in Moral Philosophy or Political Economy for students who have already attended the ordinary Moral Philosophy or Political Economy class. The Class is intended also to meet the requirements, in this subject, of students preparing for the Degree of M.A. with Honours in *Mental Philosophy*, or in *Economic Science*, and for the Home and Indian Civil Service Examination in Political Science.

The Course of Lectures will include a discussion of the main theories as to the nature and functions of the State; a critical account of the growth of institutions; and an analysis of the moral principles underlying political rights and obligations. In different years such problems as Criminology and the theory of Punishment, Local and Imperial Government, and Administration will be specially dealt with.

Students will be expected to pursue during the Session a course of reading in prescribed portions of the following books: Bagehot, *Physics and Politics*; Treitschke, *Politics*; Green, *Principles of Political Obligation*; Woodrow Wilson, *The State*.

In connection therewith the development of the State in the 19th century will be specially studied.

## III. POLITICAL ECONOMY.

This Chair (called the Adam Smith Chair of Political Economy) was founded by Ordinance No. 149 of the Universities Commission (1889) of date 25th February, 1896, with an endowment of fifteen thousand pounds sterling, given by Mr. Andrew Stewart, merchant, Glasgow. The patronage is vested in the University Court, conjointly with one representative from time to time elected by the Merchants' House of the City of Glasgow, one representative from time to time elected by the Trades' House of the City of Glasgow, and one representative from time to time elected by the Chamber of Commerce of the City of Glasgow. The professor is a professor in the Faculties of Arts and Law.

Before the founding of the Chair, Political Economy was attached to the Chair of Moral Philosophy till 1892, when a separate lectureship was instituted by the University.

*Professor.*

1896. William Smart, M.A., D.Phil., LL.D.

1915. WM. ROBERT SCOTT, M.A., D.Phil., Litt.D., LL.D., F.B.A.

*Senior Assistant*—J. H. JONES, M.A.

*Junior Assistant*—(Vacant.)

The Political Economy Ordinary Class meets at 2 P.M.

The Lectures are partly analytical, partly historical, and reference will be made to contemporary conditions and problems. After a short introduction, the course will deal with Value: the Agents of Production: Distribution and Exchange. (Text-books: Marshall, *Elements of Economics of Industry*, last revised edition; Pierson, *Principles of Economics*, Vol. I.; Smart, *The Theory of Value*, new edition, 1910; and *The Distribution of Income*, second edition, 1912.)

HONOURS CLASS. The Class meets at 3 P.M. The course of lectures will include an enquiry into the principles of Public Finance, with some study of the Theory of the State as bearing thereon. Special study will be made of current economic problems as they present themselves. Students are recommended to confine themselves for preparatory reading to mastering Marshall's *Principles of Economics*, Books V. and VI.

SOCIAL ECONOMICS.

*Lecturer*—JOHN HARRY JONES, M.A.

This Lectureship, instituted by the University Court in 1908, is intended to assist students who wish to devote special attention to contemporary social problems. The work will be closely associated with that of the classes in Political Economy and Political Philosophy. Students desiring to take a second course in Political Economy or Moral Philosophy may take a combined course of Social Economics and Political Philosophy.

The class will meet three times a week for one half of the session. During the session 1918-1919 the lectures will be mainly devoted to an examination of the economic effects of the present war. Students are required to read, and will be examined upon the Report on Scotland of the Poor Law Commission, 1909. They are also required to perform an amount to be specified of practical work in connection with selected social organisations. The following books are recommended for preparatory reading: *The Poor Law Commissioners' Report of 1834* (Reprinted 1905, Cd. 2728); Jones, *The Economic Effects of War and Conquest*.

#### ECONOMIC HISTORY.

*Lecturer—(Vacant.)*

(Provisional).—The lectures will deal with economic history in the early modern period with reference to original authorities.

#### IV. EDUCATION.

This Lectureship was instituted by the University in 1894.

*Lecturers.*

1894. David Ross, M.A., B.Sc., LL.D.

1899. John Adams, M.A., B.Sc.

1902. John Clark, M.A.

1907. WILLIAM BOYD, M.A., B.Sc., D.Phil.

The Education Class meets three days a week at 4.15 p.m.; the tutorial sections meet once a week at hours to be fixed at the beginning of the session. The course consists of seventy-five lectures, which together with the tutorial work qualify for graduation in Arts.

The Course of Lectures will be as follows:

(1) The Development of Educational Theory and Practice from the fall of the Roman Empire till the Reformation. (2) The principles underlying Practical Education at the school stage. (3) Child Study.

In the tutorial classes, some of the more important works of the period of history taken up will be studied. This session, the special books prescribed are Plato's *Republic* and Rousseau's *Émile*. In connection with the *Émile*, students will read the

lecturer's "*Educational Theory of Jean Jacques Rousseau.*" In addition to this, an investigation illustrating the lectures on Child Study will be undertaken, and current educational problems discussed.

*N.B.*—Students taking the Education Class for graduation are required to attend it either after or along with a class in Logic or Moral Philosophy.

## C. SCIENCE.

### I. MATHEMATICS.

This Professorship, long suppressed for want of funds, was revived by an Act of Faculty in 1691. The Professor is appointed by the University Court. He is a member of the Faculty of Arts, and also, since 1893, of the Faculty of Science.

*Professors from the year 1691.*

1691. George Sinclair.	1796. James Millar, M.A.
1699. Robert Sinclair, M.D.	1832. James Thomson, LL.D.
1711. Robert Simson, M.D.	1849. Hugh Blackburn, LL.D.
1761. James Williamson, D.D.	1879. William Jack, LL.D., D.Sc.
1909. GEORGE A. GIBSON, M.A., LL.D.	

### I. Ordinary Class.

This is the qualifying Class for the Ordinary Degree of M.A. (Single Course), and for the Degree of B.Sc. in Pure Science (First Examination). Sections of the Class meet daily from 8 to 9 and from 12 to 1, the subjects of study and the examinations being the same for each Section.

The work of the Class includes: *Geometry of Similar Figures* and *Elements of Higher Geometry*; *Algebra* with graphical representation of functions; *Trigonometry*; *Elements of Co-ordinate Geometry*.

### II. Higher Ordinary Class.

This Class meets daily from 10 to 11, and is intended for those who take a Double Course and are examined on the Higher Standard for the Ordinary Degree. Students beginning a course for the Honours Degree may, at the discretion of the professor, attend this Class instead of the Ordinary Class.

The work of the Class includes: *Higher Geometry* in continuation of the course in the Ordinary Class; *Higher Algebra* with elementary *Theory of Equations and Infinite Series*; *Higher Trigonometry*; *Elements of Co-ordinate Geometry* and *Introduction to the Calculus*.

### III. *Intermediate Honours Class.*

This Class meets daily from 10 to 11; it forms the advanced course in Mathematics for candidates for the Degree of B.Sc. in Pure Science who take Mathematics as a subsidiary subject.

The work of the Class includes: *Higher Algebra and Trigonometry*; *Plane and Elements of Solid Co-ordinate Geometry*; *Differential and Integral Calculus* with elementary *Differential Equations*.

### IV. *Advanced Honours Class.*

This Class meets daily from 9 to 10.

The work of the Class includes: *Infinite Series*; *Definite Integrals*; *Differential Equations*; *Analytical Geometry*; *Elements of Function Theory*.

Students reading for an Honours Degree in Mathematics should consult the professor in regard to the optional subject which they wish to select for the Honours Examination; additional meetings will, as far as possible, be arranged for, in which students may have opportunities of revising the whole work of the course, and of obtaining guidance in their study of the optional subjects.

### V. *First Course for Engineers.*

This Class meets daily from 12 to 1 during the first two terms, and is intended for students who are taking any of the courses in Engineering.

The work of the Class includes: *Algebra and Trigonometry*; *Elementary Co-ordinate Geometry and Graph Tracing*; *Use of Graphic Methods*; *Introduction to the Calculus*.

### VI. *Second Course for Engineers.*

This Class meets daily from 11 to 12 during the first two terms. Students who have not attended the First Course for Engineers may, at the discretion of the Professor, be admitted to this Class.

The work of the Class includes : *Differential and Integral Calculus* with the more important types of *Differential Equations* ; *Elementary Co-ordinate Geometry of two and three Dimensions* ; *Harmonic Analysis*.

For the "Lorimer," the "Metcalf," and the "Muir" Bursaries in Mathematics, see under Bursaries ; and for the Cunningham Gold Medal, see under Prizes.

## II. NATURAL PHILOSOPHY.

This Professorship was founded by the Charter of *Nova Erectio* in 1577 ; and the Professor was confined to the department of Natural Philosophy in 1727. The Professor is elected by the University Court. He is a member of the Faculty of Arts, and also, since 1893, of the Faculty of Science, and since 1911 of the Faculty of Medicine.

### *Professors from the year 1727.*

1727. Robert Dick.

1751. Robert Dick, M.D.	1803. W. Meikleham, LL.D.
1757. John Anderson, M.A.	1846. Lord Kelvin, D.C.L.
1796. James Brown, LL.D.	LL.D., F.R.S.
1899. ANDREW GRAY, M.A., LL.D., F.R.S.	

### *Lecturers.*

PHYSICS (for Students of Medicine),	} J. G. Gray, D.Sc., F.R.S.E.
PHYSICAL OPTICS, - -	
ELECTRICITY—PURE AND	} R. A. Houston, M.A., Ph.D., D.Sc.
APPLIED,	
NATURAL PHILOSOPHY, -	G. E. Allan, D.Sc.
	G. Green, M.A., D.Sc.

### *University Assistants.*

J. G. Gray, D.Sc., F.R.S.E.  
R. A. Houston, M.A., Ph.D., D.Sc.  
G. Green, M.A., D.Sc.  
Chas. Ochrane, M.A., B.Sc.

### *Arnott and Thomson Demonstrator.*

G. E. Allan, D.Sc.

I. GRADUATING COURSES.—The following are the courses of attendance required for graduation in the several faculties:<sup>1</sup>

M.A. (Ordinary Course).—Ordinary Lecture Class.

M.A. (Higher Course).—Ordinary Lecture Class and Higher Class C. Laboratory Course of one term of 10 hours per week, or two terms of 6 hours per week.

M.A. (Honours).—Ordinary Lecture Class, and Higher Classes C. and A., with Laboratory Courses as detailed below for B.Sc. in Pure Science on Subsidiary Subject Standard.

B.Sc. (Pure Science).—(a) First Science Examination: Ordinary Lecture Class and the Ordinary Laboratory Course (one term of 10 hours per week, or two terms of 6 hours per week). (b) Final Science Examination: (i) *As a Principal Subject*: (a) For students who intend to profess mainly Mathematical Physics—Class C, Dynamics and Physics; Class A, Higher Mathematical; one term of 6 hours per week in Advanced Laboratory work. (b) For students who intend to profess mainly Experimental Physics—Class C, Dynamics and Physics; three terms of 6 hours per week in advanced Laboratory work. [Candidates to undergo an examination, including a practical examination, on the determination of Physical Constants.] (ii) *As a Subsidiary Subject*: Higher Class C, and Advanced Laboratory Course of one term of 10 hours per week, or of 6 hours per week in cases where the student has previously attended for two terms in the Ordinary Laboratory. The course here specified, including Laboratory Work, must be completed previous to entrance for the Examination. A record of research work undertaken by the candidate will, if submitted, be taken account of as a qualification for the Degree.

B.Sc. (Eng. Sc.).—(a) First Science Examination: As for B.Sc. in Pure Science. (b) Final Science Examination: Higher Class B. The course in Electricity, Pure and Applied, is one of the Options for this Degree.

B.Sc. (Agric.).—(a) First Science Examination: Ordinary Lecture Class. (b) Final Examination: The course for Experimental Physics (optional subject) is the Ordinary

<sup>1</sup> The courses for the Degree of B.Sc. in Applied Chemistry are under consideration as to details.

Laboratory Course (one term of 10 hours per week, or two terms of 6 hours per week).

B.Sc. (Public Health).—Laboratory Course of 6 hours per week during first term of the winter session. There is also in addition a tutorial course of lectures (free) in the second winter term.

M.B., Ch.B.—First Professional Examination: Physics Lecture Class and Practical Physics. (See under Physics.)

II. ORDINARY LECTURE CLASS.—This Class meets daily at 9 A.M. The main divisions of the course are Elementary Dynamics and Properties of Matter, Sound, Heat, Light, Magnetism and Electricity. These will be fully illustrated by experiments. A detailed programme of the course will be supplied to each student at the beginning of the session.

III. HIGHER MATHEMATICAL CLASS, A.—This class meets three hours weekly throughout the full Arts session, on Mondays from 11 A.M. to 12 noon, and on Wednesdays and Fridays from 12 noon to 1 P.M. The work comprises the Mathematical Theories of selected special branches of Natural Philosophy. The subjects treated will be Higher Dynamics, and one or more of the following: Hydrodynamics, Sound, Elasticity, Thermodynamics, Conduction of Heat, Optics, Magnetism, and Electricity.

IV. HIGHER CLASS, B.—This class meets on Mondays, Tuesdays, and Thursdays at 12 noon. The subjects treated are Dynamics, and two or more of the following: Hydrostatics and Hydrokinetics, Elasticity, Thermodynamics, and Electricity. These will be treated in such detail and with such reference to practical problems as may render the course suitable for Students of Engineering. Students are strongly advised to attend in Mathematics the Second Course for Engineers, or the Intermediate Honours Class, before taking this course.

V. HIGHER CLASS C.—This Class meets on Mondays, Tuesdays, and Thursdays at 12 noon throughout the full Arts session. The subjects treated are Dynamics and selected branches of Physics. The Class is intended to meet the requirements of students of Pure Science and of those taking a higher course for the Degree of M.A. Students are strongly advised

to attend the Intermediate Honours Class in Mathematics, or at least the Higher Ordinary Class, before taking this course.

VI. ELECTRICITY, PURE AND APPLIED.—This class meets at 12 noon on Wednesdays and Fridays, if a sufficient number of students present themselves. It is very desirable that students attending this class should either be attending or have already attended a course of Practical Physics in the Physical Laboratory.

VII. PHYSICAL LABORATORY.—The Laboratory is open each week-day (Saturdays excepted) from 10 A.M. to 1 P.M. and 2 to 4 P.M.

*Ordinary Course.*—The course includes instruction in the use of instruments, and experiments in General Physics, Sound, Heat, Light, and Magnetism and Electricity. It is taught in three sections, meeting at (i) 10 A.M. to 12 noon, (ii) 11 A.M. to 1 P.M., and (iii) 2 to 4 P.M. Students must attend in one or other of these sections as may be arranged at the commencement of the session, attending daily for the 10 hours per week course, and on Mondays, Wednesdays, and Fridays for the 6 hours per week course.

*Students are not admitted to this course previously to their attendance on a qualifying Lecture Class in Natural Philosophy, unless they have obtained exemption from such Class or have received from the Professor special permission to take the course. The two-terms laboratory course of 6 hours per week may be taken simultaneously with the qualifying Lecture Class; but the one-term laboratory course of 10 hours per week may be taken only by students who have previously attended a qualifying Lecture Class for at least one term. Students are admitted to the laboratory course for the third or summer term (of 10 weeks) only by special permission of the Professor.*

*Advanced Course.*—This course includes a series of advanced experiments in the subjects of the Ordinary Course. It can only be taken simultaneously with or subsequent to attendance in one or other of the Higher Classes. The required weekly attendance must be made up in periods each of not less than two consecutive hours.

*Medical Courses.*—(See under *Physics* below.)

*Research Work.*—Research work is carried on daily under the superintendence of the Professor and his Assistants. Facilities are given for candidates for the B.Sc. in Pure Science to carry out research as part of their degree course.

Books recommended: (1) Ordinary Lecture Class.—Gray's *Elementary Dynamics*, with Watson's *Intermediate Text-Book of Physics*; Maclean's *Exercises in Natural Philosophy*; Book of Four Figure Logarithm Tables. (2) Higher Mathematical Class, A.—Gray's *Treatise on Dynamics* or Gray's *Treatise on Physics*, and *Treatise on Magnetism and Electricity*, Vol. I.; *An Introduction to Mathematical Physics*, by R. A. Houstoun; and books recommended in connection with special subjects treated. (3) Higher Class, B.—Gray's *Treatise on Dynamics*. (4) Higher Class, C.—Gray's *Treatise on Dynamics*, Houstoun's *Light*. (5) Electricity, Pure and Applied.—Gray's *Absolute Measurements in Electricity and Magnetism*, and Foster and Porter's *Electricity and Magnetism*. (6) Physical Laboratory. Advanced Course—Watson's *Text-book of Practical Physics* and Stewart and Gee's *Electricity*.

## PHYSICS.

*Lecturer*—JAMES G. GRAY, D.Sc., F.R.S.E.

I. *Lectures.*—The lectures of this course are designed primarily for students proceeding to the First Professional Examination in Medicine. They are delivered daily at 11 A.M. during the Summer Session in the Natural Philosophy Department, and embrace the fundamental principles of the Dynamics of Solids, Liquids, and Gases, and the rudiments of Sound, Light, Heat, Magnetism, and Electricity. A detailed programme of the subjects of the course is given to each student at the beginning of the course. The text-books recommended are Gregory and Hadley's *Class Book of Physics* and Knott's *Physics*.

II. *Practical Work.*—A course of practical work in connection with this class is held during the summer session, and should be taken concurrently with the lectures. It is designed to furnish an opportunity of acquiring such a knowledge of physical instruments and experience in their manipulation as may be useful in practical Physiology and in laboratory work in Public Health. The class meets for practical work in two

sections, one of which meets on Tuesdays from 9 to 11 A.M., and on Thursdays from 2 to 4 P.M., and the other on Tuesdays from 2 to 4 P.M., and on Thursdays from 9 to 11 A.M.

*For the Arnott Prize in General Physics, see under Prizes.*

#### ELECTRICITY—PURE AND APPLIED.

*Lecturer*—GEORGE E. ALLAN, D.Sc.

(See p. 114.)

#### III. ASTRONOMY.

(See under Faculty of Science, page 121.)

#### IV. CHEMISTRY.

(See under Faculty of Medicine, page 139.)

#### V. ZOOLOGY.

(See under Faculty of Medicine, page 143.)

#### VI. BOTANY.

(See under Faculty of Medicine, page 141.)

#### VII. GEOLOGY.

(See under Faculty of Science, page 127.)

#### VIII. GEOGRAPHY.

This Lectureship was instituted by the University Court in 1909.

##### *Lecturers.*

1909. H. G. LYONS, F.R.S.

1911. J. D. FALCONER, M.A., D.Sc.

*Ordinary Class.*—This Class meets from 2 till 4 P.M. and qualifies for graduation in Arts. Students who propose to offer Geography either as subsidiary or as principal subject in the Final Science Examination are also required to attend this class.

There will be 125 meetings, and the course will include lectures and laboratory work daily. The lectures will be devoted to the regional study of the Continents, Countries, and Peoples of the World, and to the establishment of definite Principles of Geography. Practical instruction will be given

in elementary surveying ; delineation of topographical features ; map-drawing to scale ; copying, reducing, enlarging, and measuring maps ; interpretation of Ordnance Survey maps ; construction and use of meteorological charts, distribution maps, etc.

Students joining the class are expected to possess a general knowledge of the Topography of the World and an acquaintance with the elements of Physical and Regional Geography and the Geography of Man such as is required for the Higher Grade Standard of the Leaving Certificate Examination.

*Advanced Class.*—This class meets from 9-11 A.M. and is the qualifying class for graduation in Science when Geography is taken as principal or subsidiary subject. Before entering the class, students will be required to produce a certificate of proficiency in the work done in the Ordinary Class.

There will be 100 meetings of the class, and the course will include both lectures and laboratory instruction.

The work of the class will be divided into two parts. Part I. will include a special course of Commercial Geography, an advanced course in Regional Geography, and exhaustive study of a special continent or region, with accompanying laboratory work.

In Part II. the work will be of a more specialised character, and will be divided up into various courses of study. The courses at present organised are (a) Trigonometrical Surveying and Cartography ; (b) Hydrography and Climatology ; (c) Topographical and Structural Geography ; (d) Anthro-Geography. Only students who have taken Mathematics in their first B.Sc., or who are otherwise able to satisfy the Lecturer of their knowledge of Mathematics, will be allowed to take course a, while a similar knowledge of Physics, Geology, and Biology will be required of those taking courses b, c, and d respectively. Special papers and monographs will be prescribed for reading in connection with each course.

## D. HISTORY AND LAW.

### I. HISTORY.

This Chair was founded by Ordinance No. 28 of the Universities Commission (1889) of date 5th June, 1893. The Professor is appointed by the University Court.

*Professors.*

1894. Richard Lodge, M.A. 1899. DUDLEY J. MEDLEY, M.A.

*Lecturer*—A. BROWNING, M.A.

ORDINARY CLASS.—The Class meets three times a week at 10 A.M. on such days as shall be determined from term to term by the Professor. Students attending the Class are warned *not to make any permanent engagement for the class-hour on any week-day except Saturday.* The course qualifies for graduation.

In session 1918-19 the Professor will lecture on the Outlines of European History, A.D. 1453-1878. The prescribed book is R. Lodge, *History of Modern Europe* (Murray).

HIGHER ORDINARY and HONOURS CLASSES.—During the continuance of the war these classes will be amalgamated. The Class meets at 10 A.M. on days to be arranged. The subject of the course will be British History, 1485-1832. The following will be taken as text-books: Fletcher, *Introductory History of England*; Hume Brown, *History of Scotland*, vol. I.

NOTE.—The classes recognized as Honours Classes in the Group of History are the Honours Classes held by the Professor of History, by the Professor of Scottish History and Literature, by the Lecturer in Constitutional Law and History, by the Lecturer in British History, by the Lecturer in Roman History, and the Senior Class held by the Professor of Ecclesiastical History.

## BRITISH HISTORY.

*Lecturer*—J. B. BLACK, M.A., B.A.

During the continuance of the war this class is suspended. Students who desire to take British History for Honours in English Literature and Language are required to attend the Higher Ordinary and Honours Class in History.

For the classes recognized as Honours Classes in the Group of HISTORY, see the note above.

## II. CONSTITUTIONAL LAW AND HISTORY.

*Lecturer.*

1894. WILLIAM S. McKECHNIE, M.A., LL.B., D.Phil.

1916. (Vacant.)

I. ORDINARY CLASS.—This class qualifies as a full course for graduation both for the ordinary M.A. and for Honours in History. (For subjects of study, text-books, etc., see under Faculty of Law, page 178.)

II. HIGHER ORDINARY CLASS.—Students taking this subject for a second year will attend the Honours Class.

III. HONOURS CLASS.—In session 1918-19, if any students intending to graduate with honours enrol themselves, a course of over 50 lectures (qualifying *pro tanto* for graduation with Honours) will be given on the early Constitutional History of England till 1295. The class text-book will be Stubbs, *Select Charters*. The following works are suggested for the use of students before or during the session:—Stubbs, *Constitutional History*; Pollock and Maitland, *History of English Law*; McKechnie, *Magna Carta*. The class meets twice or three times a week at 3 P.M. on such days as the Lecturer may determine.

## III. ROMAN LAW.

(See under Faculty of Law, page 177.)

## IV. SCOTTISH HISTORY AND LITERATURE.

This Chair was founded by University Court Ordinance, No. XL (Glasgow, No. 13), issued on 7th November, 1912, and approved by His Majesty in Council on 7th March, 1913. An endowment of about twenty thousand pounds sterling was provided, partly by a grant of £15,000 from the surplus receipts of The Scottish Exhibition of National History, Art, and Industry, 1911, of which Sir Andrew Pettigrew was Chairman, partly by contributions from the Merchants' House, Glasgow, and partly by funds collected by a Citizen Committee, of which Dr. William Wallace was Convener.

In 1909, through the liberality of an anonymous donor, the University Court was enabled to establish a Lectureship in Scottish History, and a Lectureship in Scottish Literature, each tenable for one year. Six courses of lectures, open to the public, were thus provided during the years 1909-1912. The Lectureships ceased to exist on the institution of the Professorship.

*Professor.*

1913. ROBERT S. RAIT, O.B.E., M.A.

SCOTTISH HISTORY AND LITERATURE.<sup>1</sup>

*Ordinary Class.*

The Professor will lecture on Mondays, Wednesdays, and Fridays at 12 noon. Students are warned not to make any permanent engagement at 12 noon for any day except Saturdays.

The lectures will deal with selected topics in Scottish History and Literature from the earliest times to the present day. No attempt will be made to treat Scottish Literature from the standpoint of Philology, but stress will be laid upon the connexion between History and Literature. The following books are recommended as an introduction to the subject:—Hume Brown, *History of Scotland*; Lang, *History of Scotland*; Tytler, *History of Scotland*; Rait, *Relations between England and Scotland*; Millar, *A Literary History of Scotland*; Watt, *Scottish Life and Poetry*. The chapters dealing with Scotland in the *Cambridge Modern History* and in the *Cambridge History of English Literature* will also be found useful.

*Higher Ordinary Class.<sup>2</sup>*

The Senatus has meanwhile recognized the Honours Class as a Higher Ordinary Class.

*Honours Class.<sup>2</sup>*

The Professor will lecture on Wednesdays and Fridays at 10 A.M. Students are warned not to make any permanent engagement for 10 A.M. on Mondays. The subject of the Honours Lectures in session 1918-1919 will be The Development of the Kingdom of Scotland. Students will be required

<sup>1</sup> Scottish History and Literature, for graduation purposes, shall be preceded by or accompanied by a course in History.

<sup>2</sup> May have to be suspended during session 1918-19.

to study selected portions of the Acts of the Parliament of Scotland, the Exchequer Rolls, the Treasurer's Accounts, and the Register of the Privy Council. The following books are recommended: Cosmo Innes, *Scotland in the Middle Ages*; *Sketches of Early Scotch History*; *Lectures on Scotch Legal Antiquities*; Rait, *The Scottish Parliament before the Union of the Crowns*; Terry, *The Scottish Parliament, 1603-1707*; Wallace, *Thoughts on the Origin of Feudal Tenures and the Descent of Ancient Peerages in Scotland*; Neilson, *Trial by Combat*; Lord Kames, *Essays on British Antiquities*; McKechnie, *Magna Carta*; Lawrie, *Early Scottish Charters*.

## II.—FACULTY OF SCIENCE.

The Faculty of Science was instituted by Ordinance No. 31 of the Universities Commission (1889) of date 5th June, 1893, and at the present time embraces the classes of Mathematics, Natural Philosophy, Astronomy, Chemistry, Zoology, Geology, Botany, Anatomy, Physiology, Civil Engineering and Mechanics, Naval Architecture, and Mining. In this Faculty there are also classes in Electricity—Pure and Applied, Electrical Engineering, Optics, Physical Chemistry, Organic Chemistry, Metallurgical Chemistry, Physiological Chemistry, Psychology, Embryology, and Public Health.

### I. MATHEMATICS.

(See under Faculty of Arts, page 109.)

### II. NATURAL PHILOSOPHY.

(See under Faculty of Arts, page 111.)

### III. ASTRONOMY.

The Professorship of Practical Astronomy was founded in the year 1760, conjointly with the office of Observer in the University of Glasgow, and is in the gift of the Crown. By Ordinance No. 31 of the Universities Commission (1889) of date 5th June, 1893, it is now called Astronomy, and the Professor is a member of the Faculty of Science, the Chair having been transferred by the Universities Commission in

1893 from the Faculty of Arts to the newly instituted Faculty of Science.

*Professors.*

1760. Alex. Wilson, LL.D.	1803. James Cooper, D.D.
1784. Patrick Wilson, LL.D.	1836. John P. Nichol, LL.D.
1799. W. Meikleham, LL.D.	1859. R. Grant, LL.D., F.R.S.
1893. LUDWIG BECKER, Ph.D., F.R.A.S.	

An Observatory has always existed in connection with this Chair. The present Observatory is situated on an eminence in the vicinity of the University buildings.

Dr. Wilson, the second occupant of the Chair, bequeathed to the University the sum of one thousand pounds, upon the condition that the interest thereof should be applied to the purchase of instruments and books for the use of the Professor of Astronomy and the students attending his prelections.

The Trustees of the Bellahouston Bequest Fund made in 1894 a grant of eleven hundred pounds for the improvement of the Observatory.

The Professor of Astronomy delivers two Courses of Lectures on Astronomy at the University during the session, and gives expositions on instruments and methods of observation at the Observatory.

*Class A.*

Subject: Celestial Dynamics.

The students ought to be well prepared on the subjects of the Intermediate Honours Mathematical Class.

The class meets at 3 P.M. on Tuesdays and Thursdays in the first term, and on Tuesdays, Thursdays, and Fridays in the second term.

*Class B.*

Subjects: Spherical Astronomy — The celestial sphere, description and theory of instruments, determination of latitude and time, Precession, Nutation, Aberration, Figure of the Earth, Eclipses, Occultations.

The class meets at 3 P.M. on Mondays, Wednesdays, and Fridays in the first term, and on Mondays and Wednesdays in the second term. Practical Demonstrations at the Observatory on Saturdays, 10 A.M. to noon, in October and November.

Books :—*The Nautical Almanac*, 1913 ; Charles A. Young, *Manual of Astronomy* (Ginn & Co., Boston and London, 1902).

Attendance on the two classes, either in the same session or in different sessions, counts as a full course for the Degree of M.A.<sup>1</sup> Classes A. and B., which may be taken in one session, with practical work at the Observatory, are a full course for the Degree of B.Sc. in Pure Science. The student has to acquire skill in observing with several instruments, to secure observations of sufficient accuracy, and to derive the results by calculation.

The course of Observatory work will occupy about 50 hours apart from calculations, and the student is advised to take it in the third term. The practical course must be completed previous to admission to the Degree Examination ; but the student is permitted to sit the examination at the close of the theoretical lectures, on the condition that he finishes his practical work before the end of the same session.

If Astronomy be taken as the principal subject, additional work, theoretical and practical, will be required. If Astronomy be taken either for the Degree in Pure Science as subsidiary to any principal subject other than Mathematics or Natural Philosophy, or for the Degree in Science in Engineering, Class A. is not compulsory, but additional practical work has to be undertaken.

#### IV. CHEMISTRY.

(See under Faculty of Medicine, page 139.)

##### ORGANIC CHEMISTRY.

This Lectureship was instituted by the University Court.

##### *Lecturers.*

1898. William R. Lang, D.Sc.

1901. Matthew A. Parker, B.Sc.

1904. T. S. PATTERSON, D.Sc., Ph.D.

Three courses of Lectures on Organic Chemistry are given :

1. A course of 40 lectures, which counts as a half course, must be taken by all offering Chemistry as a principal subject, or Organic Chemistry as a subsidiary subject, for the Final Science Examination.

The class will meet during the second half of the Winter

<sup>1</sup> Astronomy shall be preceded by at least one course in Mathematics.

Session and part of the Summer Session at 11 A.M. Students taking Chemistry as principal subject are recommended to adhere as closely as possible to the programme suggested on p. 294. Those taking Organic Chemistry as a subsidiary subject should consult the lecturer as far in advance as possible in regard to the best times for taking the laboratory and lecture classes.

In the course, the chemistry of the aliphatic compounds is sketched, important subjects such as the carbohydrates, aceto-acetic ester and malonic ester syntheses, stereoisomerism, the ureides, etc., being treated in some detail. Thereafter the chemistry of the carbo-cyclic, and of a few of the more important hetero-cyclic compounds, is described. The lectures are illustrated by experiments, but since students attending the class are advised to take a laboratory course at the same time, when they may themselves carry out the more important operations described and prepare specimens of typical organic compounds, these experiments will only be such as are of a somewhat special character, and not suitable for general laboratory work.

2. A higher course of about 20 lectures during the winter session. This class, for which there is no fee, will be held at an hour to suit those who wish to attend. In it the subjects will be carried to an advanced stage, virtually by a continuation of certain of the lectures of Class I.

3. A special course of about 12 lectures will be delivered during the summer session on certain selected chapters in Organic Chemistry with particular reference to the results of recent investigation. This class will be open without fee to all who wish to attend, but some previous acquaintance with the subject is desirable.

#### METALLURGICAL CHEMISTRY.

This Lectureship was instituted by the University in 1899, and an endowment was provided in 1908 (see p. 205).

*Lecturer.*—CECIL H. DESCH, D.Sc., Ph.D.

Lectures are given thrice weekly throughout the Winter Session. For convenience the course is divided into two parts: Class A, October to December; and Class B, January to March. Students may enrol for a half-course on payment of half the fee for the full course. Metallurgical Chemistry is

one of the qualifying subjects for the Degree of B.Sc. in Engineering and for the Certificate of Proficiency in Engineering; and for the degree of B.Sc. in Applied Chemistry. This class is also the qualifying graduation course in Metallurgy for students taking the B.Sc. Degree or the Certificate of Proficiency in Mining Engineering. Under the new regulations for the Final B.Sc. Examination in Pure Science, Metallurgical Chemistry may be taken as a subsidiary subject; Metallurgical Chemistry also enters into the Final Examination when Chemistry is the student's principal subject.

**SUBJECTS, Class A.**—The Nature and Occurrence of Ores. Natural and Artificial Fuels. The Determination of Calorific Values. Refractory Materials. Types of Furnaces. The Extraction of Metals from their Ores by Smelting. Wet and Electro-metallurgical Processes. Methods used in Assaying.

**Class B.**—The Nature of Metallic Alloys. The Thermal and Microscopical Study of Alloys. The Physical and Mechanical Properties and their relation to the Chemical Constitution. The special characters of Iron, Steel, and the principal technical Alloys. The Study of Fatigue and Corrosion.

**Laboratory Course.**—Students should attend two and a half hours daily during the Winter Session.

Excursions are arranged throughout the session.

**Text-Books.**—Roberts-Austen, *Introduction to the Study of Metallurgy*; Stansbie, *Iron and Steel*; Desch, *Metallography*.

#### METALLOGRAPHY.

A practical class in metallography is held during the Winter and Summer Session as may be arranged. The work of the class includes the microscopical examination of iron, steel, and alloys, thermal analysis, and the study of flaws, fractures, and corrosion in engineering materials.

#### PHYSICAL CHEMISTRY (INCLUDING RADIO-ACTIVITY).

This Lectureship was instituted by the University Court in 1904.

#### *Lecturers.*

1904. FREDERICK SODDY, M.A., F.R.S.

1914. ALFRED W. STEWART, D.Sc.

## I. PHYSICAL CHEMISTRY.

Students offering Chemistry as principal subject are advised to take their Course as far as practicable along the lines suggested by the scheme given on p. 294. All students must have taken the Practical Course in Quantitative Analysis prior to taking the Practical Course in Physical Chemistry.

*Lectures.*—The Course comprises 40 lectures, and is held at 10 A.M. throughout the Winter Session on alternate days with the Inorganic Chemistry Lectures. The class-book is Senter's *Outlines of Physical Chemistry*, and the lectures cover similar ground. The earlier part of the course deals with General Theoretical Chemistry.

*Practical.*—The Physical Chemistry Laboratory is open daily during the Winter Session for the Practical Course. The class-books are Findlay's *Practical Physical Chemistry* or Gray's *Practical Physical Chemistry*.

## II. ADVANCED INORGANIC CHEMISTRY.

This course comprises 40 Lectures. A knowledge of a text-book of the standard of Mellor's *Inorganic Chemistry* will be assumed, and the whole of the Elements, rare as well as common, will be reviewed from the standpoint of their inter-relationships. Recent work will be selected for more detailed treatment. Stewart's *Recent Advances in Physical and Inorganic Chemistry* may be used to supplement the lectures. The course will be held in the Winter Session at 10 A.M. on days alternating with the Course in Physical Chemistry.

## III. RADIO-ACTIVITY AND ADVANCED PHYSICAL CHEMISTRY.

A course of 20 Lectures in these subjects will be held once every two years. It will next be held in 1918-19. The course is designed to cover as completely as possible the general features of radioactivity from the chemical side. Provision is made in the Physical Chemistry Laboratory for Practical work in Radioactive Measurements. Books recommended for reference:—F. Soddy, *Chemistry of the Radio Elements*, Parts I. and II., Longmans, Green & Co., 1911 and 1913; E. Rutherford, *Radioactive Substances and their Radiations* (Camb. Univ. Press); Mme. Curie, *Traité de Radioactivité*, 2 vols. (Gauthier-Villars, Paris).

## V. GEOLOGY.

This Chair was founded by the University Court Ordinance No. VIII. (Glasgow, No. 3) issued on 12th February, 1903, and approved by His Majesty in Council on 11th August, 1903, an endowment of fifteen thousand pounds sterling having been provided by the Carnegie Trust, the Bellahouston Trust, and other Donors. The Professor is appointed by the University Court, and is a Professor in the Faculty of Science.

In 1876 the late Mrs. Honyman Gillespie of Torbanehill endowed a Lectureship in Geology, to be called the Honyman Gillespie Lectureship, in memory of her husband, W. Honyman Gillespie, Esq. The Lectureship was attached by the Deed of Foundation to the Chair of Natural History, but power was given to the Trustees to withdraw it from that chair and to attach the income to the Chair of Geology when founded. The Trustees have agreed to exercise that power and pay over the annual income of the Honyman Gillespie Lectureship to the University Court to augment the salary of the Professor of Geology.

*Professor.*

1904. JOHN WALTER GREGORY, D.Sc., F.R.S.

Geology is a subject of study for the Degrees of M.A., B.Sc. in Pure Science, B.Sc. in Engineering, B.Sc. in Mining, B.Sc. in Agriculture, B.Sc. in Public Health, and B.Sc. in Applied Chemistry. For the Degree in Arts there will be one hundred meetings of the class, including Laboratory and Field Work; for the B.Sc. in Public Health fifty-two meetings, including Laboratory and Field Work; for the B.Sc. in Agriculture eighty meetings, including Laboratory and Field Work; for the B.Sc. in Engineering eighty meetings, including Laboratory and Field Work. The course for the B.Sc. in Pure Science is divided into two parts: in Part I. the course consists of one hundred meetings, of which fifty are lectures; Part II. consists of one hundred meetings, of which fifty are lectures. Before admission to Part II. a student must produce a certificate showing that he has done the work required in Part I. The course in Geology for B.Sc. in Mining Engineering comprises a course of fifty lectures and fifty meetings for practical work in the second year, and a course of fifty meetings taken after Christmas in the third year.

*Cowie Prize.*—Mr. C. R. Cowie in 1909 presented £100 to the Geological Society of Glasgow at the end of his Vice-Presidency of the Society, to assist students of Geology in Glasgow, and especially at the University. The Council of the Society has allotted half the annual interest on this sum to the Geological Department of the University. It has been decided by arrangement between the Council of the Geological Society and the Professor of Geology that the share allotted to the University shall be devoted to a prize on the result of the class work, and shall be awarded in alternate years in Part I. and Part II. of the Geological course. The prize in the year 1918-1919 will be awarded to students of Part II.

#### VI. ZOOLOGY.

(See under Faculty of Medicine, page 143.)

#### VII. BOTANY.

(See under Faculty of Medicine, page 141.)

#### VIII. ANATOMY AND EMBRYOLOGY.

(See under Faculty of Medicine, page 145.)

#### IX. PHYSIOLOGY.

(See under Faculty of Medicine, page 147.)

#### X. GEOGRAPHY.

(See under Faculty of Arts, page 116.)

#### XI. CIVIL ENGINEERING AND MECHANICS.

The Professorship of Civil Engineering and Mechanics was instituted by Queen Victoria in 1840, and is in the gift of the Crown. The emoluments of the Chair were increased in 1872 by a supplemental endowment<sup>1</sup> by the late Mrs. Elder, widow of Mr. John Elder, engineer and shipbuilder, Glasgow; and, in 1876, the Young Assistantship was founded by bequest of Mrs. Black, widow of the Rev. Dr. Black, Barony Church, Glasgow. The University Court instituted a lectureship on Electrical Engineering in 1898, and one on Engineering Drawing and Design in 1901.

<sup>1</sup> The annual income of a sum of £5000.

*Professors.*

1840. Lewis D. B. Gordon, C.E.  
 1855. William J. Macquorn Rankine, C.E., LL.D.  
 1873. James Thomson, M.A., C.E., LL.D., D.Sc., F.R.S.  
 1889. Archibald Barr, D.Sc., M.Inst.C.E., M.I.Mech.E.  
 1913. JOHN DEWAR CORMACK, C.M.G., D.Sc., M.Inst.C.E.,  
 M.I.Mech.E., M.I.E.E.

*Lecturer on Electrical Engineering.*

John S. Nicholson, B.Sc., Whit. Sch., A.M.I.E.E.

*Lecturer on Engineering Drawing and Design.*

Harry Bamford, M.Sc., A.M.Inst.C.E.

*Lecturer on Heat Engines.*

Thomas B. Morley, D.Sc., A.M.I.Mech.E.

*Lecturer in Engineering.*

David Thomson, B.Sc.

*Assistants and Demonstrators.*

Robert M. Brown, B.Sc. (Young Foundation).  
 A. L. Tackley, B.Sc.

The courses in Engineering extend throughout the winter session. They comprise Lectures on Engineering Principles and Practice, Instruction in Geometrical Drawing and in Engineering Drawing and Design, Laboratory Practice, and visits to Engineering Works and Manufactories.

These courses are designed primarily to suit students who intend to devote themselves to Civil, Mechanical, Electrical, or Mining Engineering; but the work of the classes will be found of direct practical utility to architects and to men who are engaged in any occupations connected with manufactures.

The work of the classes is not intended in any way to supersede the usual requirements of pupilage or apprenticeship in Engineering, but to enable the Engineer to gain such a knowledge of the principles underlying his profession or trade as he cannot acquire by only working in the office, in the field, or in the workshop. The classes may be attended either before or after pupilage or apprenticeship, or concurrently therewith. In most cases the students spend the summer six months in works or offices and thus get their scientific and practical training on the "sandwich" system.

**CLASS I.—THE MATERIALS OF CONSTRUCTION AND THE ELEMENTS OF APPLIED MECHANICS.**—Daily at 9 A.M. Subjects: Preparation, Properties and Uses of the Chief Constructive Materials, especially of Cast Iron, Wrought Iron, Brass and other Alloys, Timber, Building Stones, Cements and Concrete; Graphics; Steam, Gas, and Oil Engines, and other Prime Movers; and the more Elementary Principles of Mechanics in their application to problems connected with Engineering Structures and Machines.

**CLASS II.—SURVEYING, LEVELLING, AND SETTING-OUT OF WORKS.**—Mondays, Wednesdays, and Fridays, at 10 A.M.—Subjects:—Surveying with the Chain and with Angular Instruments; Telemetry; Levelling; the Optical and Mechanical Principles, Tests, and Adjustments of Surveying and Levelling Instruments; Setting-out of Works, especially Setting-out of Railways; Mensuration of Areas of Land and of Volumes in Earth Works; the Execution of Civil Engineering Works. The Lectures will treat for the most part of those portions of the subject which are not readily learned in ordinary field and office practice.

**CLASS III.—PRIME MOVERS AND THE MECHANICS OF MACHINERY.**—Mondays, Wednesdays, and Fridays at 10 A.M. The Lectures treat of the Sources of Energy; Fuels; the Theory of Steam, Gas, and other Heat Engines; the structural details of Boilers and Engines; the Mechanics of Machinery; the Elements of Machine Design; the Transmission of Power; and Friction and Lubrication in Machines. Attendance on this class should be preceded by attendance on Class I. in the case of students entering with little knowledge of Applied Mechanics.

**CLASS IV.—HIGHER APPLIED MECHANICS AND HYDRAULICS.**—Daily, except Saturday, at 9 A.M. The Lectures treat of the Strength and Elasticity of Materials; the Strength and Stiffness of Beams, Girders, Columns, Framed Structures, Shafts, etc.; Hydraulics and Hydraulic Appliances, including the Gauging of Water, the Flow of Water in Pipes, and the Principles of Water Wheels, Turbines, and Centrifugal Pumps.

**ENGINEERING DRAWING AND DESIGN.**—The drawing class-room is open daily, except Saturday, from 9 A.M. till 5 P.M. Each student will be required to attend six hours per week (at times to be arranged at the beginning of the session), and will be expected to devote extra time to the per-

formance of work. The work of the classes will comprise Lectures and Practice in Civil and Mechanical Engineering Drawing; Lectures and Practice in Design of Structures; Descriptive Geometry, Graphical Statics, and the Kinematics of machinery; and the performance of graphical work and calculations in connection with the lecture courses.

**ENGINEERING LABORATORIES.**—The James Watt Engineering Laboratories, which have been erected and equipped at a total cost of about £40,000, are now complete. The equipment includes a steam boiler for 100 horse power, steam, gas, oil, petrol, and hot-air engines; a 50 horse power steam turbine; a refrigerating plant; 100-ton and 10-ton testing machines arranged for tests in tension, compression, bending, and torsion, and fitted with autographic stress and strain recorders; cement testing appliances; a variety of water turbines; apparatus for experiments on the flow of water through orifices and pipes, and other apparatus for investigations bearing upon Engineering Science and Practice. (See also under Electrical Engineering, p. 131.)

The Laboratories are open daily; each student is required to attend at least six hours per week (at times to be arranged at the beginning of the session).

For the purposes of Ordinance No. 23, Section IX. (see page 301), Class IV., together with Laboratory practice, counts as one whole course; any two of the other Lecture Classes (I., II., III., Electrical Engineering I., II.), together with Laboratory practice, count as the other whole course. Candidates taking the second option under Section IX., *i.e.* candidates for the Degree of B.Sc. on the side of Naval Architecture, are required to take Class IV. together with Laboratory practice.

### ELECTRICAL ENGINEERING.

A Lectureship in Electrical Engineering was instituted by the University Court in 1898.

#### *Lecturers.*

1898. John Dewar Cormack, B.Sc.

1901. James Blacklock Henderson, D.Sc.

1905. JOHN STEEL NICHOLSON, B.Sc., Whit. Sch.

Two classes are held during the Winter Session. For the purposes of Ordinance No. 23, Section IX., 5, 6 (see page 302), Class I., along with Laboratory practice, or Class II.,

with Laboratory practice, counts as a half course, while both classes, along with Laboratory practice, constitute a full course. Class I. and Class II. are also qualifying classes under Ordinance No. 23, Section IX., 9 (h).

The Electrical Laboratory is part of the James Watt Engineering Laboratories, and is open daily, except Saturdays, for experimental and research work.

*Class I.*—Mondays, Wednesdays, and Fridays at 8 A.M. This course is arranged to cover a wide field suitable for the needs of civil, mechanical, and mining engineers as well as for those who intend to specialise in electrical engineering. Subjects:—Practical units of current, quantity, E.M.F., resistance, power, and energy; Ammeters, voltmeters, wattmeters, and energymeters; Measurement of resistances. Cells and the calculation of E.M.Forces; Secondary cells and their chemical reactions; Electro-chemical processes. Carbon and metallic filament and arc lamps. Magnetic properties of iron and steel and their measurement; the magnetic circuit; Hysteresis and hysteresis losses. Electro-magnetic induction and the production of E.M.F.; Development of the dynamo; Winding of armatures and field magnets. Characteristic curves; armature reaction and conditions for sparkless commutation. Losses, efficiency and methods of testing dynamos and motors. Modern direct current machinery; motor starters, tramway, lift and crane controllers. Direct current distribution; Kelvin's law of economy. Alternating E.M. Forces and currents; relation between mean, maximum and effective values; measurement of alternating currents, E.M.Forces and power, power factors. Alternators.

Text-books: James Barr, *Direct Current Electrical Engineering*; MacLean, *Electricity and its Practical Applications*; Thomälen, *Electrical Engineering* (translated by G. W. O. Howe).

Book of reference: Hawkins and Wallis, *The Dynamo*.

*Class II.*—Tuesdays, Thursdays, and Saturdays, at 8 A.M. Subjects:—Armature reaction and commutation in continuous current machines. Distribution of power and distribution losses. Electromagnetic induction. Alternate current phenomena; single and polyphase currents; mathematical and graphical treatment of alternating current problems. Capacity

and inductance of transmission lines. Transformers and alternators; theory, regulation, losses and efficiency. Armature reaction in polyphase machines and rotary converters. Synchronising and parallel running of alternators. Induction motors, single and polyphase; methods of starting; singlephase commutator motors. Testing of alternators and motors; compounding of alternators.

Text-books: Hawkins and Wallis, *The Dynamo*; Kapp, *Transformers*.

Books of reference: Steinmetz, *Elements of Electrical Engineering*; Steinmetz, *Alternating Current Phenomena*; J. L. la Cour and O. S. Bragstad, *Theory and Calculation of Electric Currents*.

*Electrical Engineering Drawing and Design*.—General principles underlying the design and calculation of electrical machinery, with special reference to some particular type. See under "Engineering Drawing and Design."

*Laboratory Course*.—The equipment of the Electrical Laboratories includes a 30 K.W. three-phase generator, and a 7 K.W. two-phase generator, both motor driven, two 9 K.W. rotary converters, two tramway motors mounted for experimental work, a 5 K.W. continuous current motor generator or booster, a 5 K.W. balancer set, and motors of various kinds for continuous and alternating current. The electrical plant in other parts of the James Watt Laboratories also provides subjects for experiment. These include a 34 K.W. de Laval steam turbine and dynamos, a 30 K.W. high speed engine and dynamo, a 35 H.P. eddy current brake, an electrically driven lift, and motor-driven fan, air pump and centrifugal pumps. The instrument room is equipped with the most modern measuring instruments.

*As to the Degrees of B.Sc. and D.Sc. in Engineering Science*, see "Index."

*As to the Certificate of Proficiency in Engineering Science*, see "Index."

*As to the Muir Bursaries, the Metcalfe Bursaries, the John Oliphant Bursary, the Dr. Strang Bursaries, the George Young Bursary, the Walker Prizes, the George Harvey Prize, the James Watt Scholarship, and the Lindsay Burnet Medal in the Department of Civil Engineering and Mechanics*, see "Index."

## XII. MINING.

## THEORY AND PRACTICE OF MINING.

On 26th March, 1902, the late James S. Dixon, LL.D., Fairleigh, Bothwell, recognising the want of a means of teaching the higher branches of the Theory and Practice of Mining, and the desire for acquiring such knowledge displayed by many young men connected with mining, made an offer of £10,000 to found a Chair or Lectureship of Mining in the University of Glasgow. The University Court accepted the offer, and a Lectureship was accordingly founded. In 1907 Dr. Dixon increased the foundation by the sum of £6,500, and the University Court, by University Court Ordinance, No. XIX. (Glasgow, No. 5), converted the Lectureship into a Chair. The Professor is appointed by a special body consisting of (1) the members of the Court, (2) the President of the Mining Institute of Scotland, (3) His Majesty's Inspector of Mines for the Western District of Scotland, (4) His Majesty's Inspector of Mines for the Eastern District of Scotland, and (5) the President of the Lanarkshire Coalmasters' Association.

*Lecturer*—1902. Charles Latham, M.Inst.M.E.

*Professor*—1907. CHARLES LATHAM, M.Inst.M.E.  
1917. (Vacant.)

The courses in mining extend throughout the winter session. Arrangements have been made for a limited number of students to obtain practical experience, during the summer months, at some of the largest and best equipped collieries in Scotland.

Under the Coal Mines Regulation Act (1887) Amendment Act (1903), both the Degree of B.Sc., and Certificate of Proficiency, in Mining Engineering are now recognised by the Home Office as equivalent to two of the five years practical training necessary to qualify as a mine manager.

## MINING ENGINEERING.

CLASS I.—Mondays and Wednesdays at 3 P.M. Subjects:—Prospecting, Boring, Sinking, Winding and Ventilation.

CLASS II.—Tuesdays and Thursdays at 3 P.M. Subjects:—Explosives, Haulage, Pumping, Lighting, Timbering, and Coal Cutting Machinery.

CLASS III.—Fridays at 3 P.M. Subjects:—Methods of working Coal and Metalliferous Mines, surface arrangements for dressing and cleaning coal and other minerals.

CLASS IV.—The designing and testing of Mining Plant. For this class the Mining Laboratory is open daily; each student will be required to attend at least one hour a week.

*As to the degree of B.Sc. in Mining Engineering, and the Certificate of Proficiency in Mining Engineering, see "Index."*

### XIII. NAVAL ARCHITECTURE, INCLUDING MARINE ENGINEERING.

The John Elder Chair of Naval Architecture was founded by the University in 1883. An endowment of £12,500 was provided by the late Mrs. Elder, widow of Mr. John Elder, engineer and shipbuilder, Glasgow. The Professor is appointed by the University Court.

#### *Professors.*

1883. Francis Elgar, LL.D. | 1886. Philip Jenkins.

1891. Sir JOHN HARVARD BILES, LL.D., D.Sc.

The courses of the Professor comprise a Junior Course of Lectures and Examinations upon Naval Architecture and Marine Engine and Boiler Design, and a Senior Course of Lectures and Examinations upon Naval Architecture; also a Junior and a Senior Course of Instruction in Ship Drawing and Calculations. The Junior Course of Lectures and Examinations may be taken in either the first or the second year of the regular curriculum, and the classes will meet on Mondays, Wednesdays, and Fridays at 12 noon, or at any other hour which may be found convenient. The Lectures deal with Ship Calculations, Marine Engine and Boiler Design, Resistance, and Propulsion. The classes of the Senior Course will be held on Mondays, Tuesdays, and Thursdays from 11 A.M. to 12 noon, or at any other hour that may be found convenient. The Lectures deal with the strength, stability, and oscillations of ships.

The Junior Course of Instruction in Ship Drawing and Calculations and Marine Engine Drawing and Design may be taken by students in the first or second year of the regular curriculum; and the classes will be held on Tuesdays, Wednesdays, Thursdays, and Fridays from 2 P.M. to 5 P.M., or at any hour that may be found convenient. The classes of the

Senior Course will be held on Tuesdays, Wednesdays, Thursdays, and Fridays from 2 P.M. to 5 P.M., or at any other hour that may be found convenient.

Engineering students who intend to specialise in Marine Engineering are strongly recommended to take the Junior Course of Lectures in Naval Architecture and Marine Engineering as their special subject.

*As to the Degree of B.Sc. on the side of Naval Architecture and Marine Engineering, see "Index."*

*As to the Lloyd's Register Scholarships, the Kirk Memorial Prize, and the Denny Prize, see "Index."*

#### XIV. PUBLIC HEALTH.

(See under Faculty of Medicine, p. 155.)

### III.—FACULTY OF MEDICINE.

The Faculty of Medicine embraces the Classes of Chemistry, Physics, Botany, Zoology, Anatomy, Embryology, Physiology, Materia Medica, Pathology, Forensic Medicine, Surgery, Practice of Medicine, Midwifery, Insanity, Diseases of the Eye, Fevers, Diseases of the Ear, Diseases of the Throat and Nose, Diseases of the Skin, Diseases of Children, Venereal Diseases, Electrical Diagnosis and Therapeutics.

#### NEW MEDICAL ORDINANCE.

*Students will find it much to the interests of their special medical studies to continue their general education until they have reached at least their seventeenth birthday, and also greatly to their advantage to take the classes of Physics and Botany before entering on the study of Chemistry and Zoology. They are therefore strongly recommended to begin their course in summer.*

#### (A) SUGGESTED SCHEME FOR STUDENTS COMMENCING IN SUMMER.

1ST YEAR. THIRD (SUMMER) TERM.—Botany, 8—9 a.m.; Practical Botany (three days a week) 9—11 a.m. or 1—3 p.m. Physics, 11 a.m.—12 noon; Practical Physics (two days a week), 9—11 a.m. or 2—4 p.m. *Examination*: Botany and Physics.

FIRST (WINTER) TERM.—Zoology, 9—10 a.m.; Practical Zoology, 11 a.m.—1 p.m. or 3—5 p.m. Chemistry, 10—11 a.m.; Practical Chemistry (three days a week), 11 a.m.—1.30 p.m. or 2.30—5 p.m.

SECOND (WINTER) TERM.—Chemistry, 10—11 a.m.; Practical Chemistry (two days a week), 1.30—4 p.m. Anatomy,

9—10 a.m.; Practical Anatomy (three days a week), 1.30—4 p.m. *Examination*: Zoology and Chemistry.

2ND YEAR. THIRD (SUMMER) TERM.—Histology (two days a week), 9—11 a.m. Practical Anatomy, 9 a.m.—4.30 p.m.

FIRST (WINTER) TERM.—Physiology, 12.30—1.30 p.m.; Practical Physiology (two days a week), 9.30—11.30 a.m. Anatomy, 11.30 a.m.—12.30 p.m.; Practical Anatomy, 9 a.m.—4.45 p.m.

SECOND (WINTER) TERM.—Physiology, 12—1 p.m.; Physiological Chemistry (two days a week), 9.30—11.30 a.m. Practical Anatomy, 9 a.m.—4.45 p.m.

3RD YEAR. THIRD (SUMMER) TERM.—Pharmacy, 8—9 a.m. or 12 noon—1 p.m. Clinical Surgery, 9—11 a.m. Practical Anatomy, 9 a.m.—4.30 p.m. *Examination*: Anatomy and Physiology.

FIRST AND SECOND (WINTER) TERMS.—Clinical Surgery, 9—11 a.m. Materia Medica, 11 a.m.—12 noon. Surgery,<sup>1</sup> 12 noon—1 p.m. or 11 a.m.—12 noon.<sup>2</sup> Pathology and Practical Pathology, 2—3 p.m. Post-mortem Examinations, 10 a.m.

4TH YEAR. THIRD (SUMMER) TERM.—Clinical Medicine, 9—11 a.m. Pathology and Practical Pathology (four days a week), 1—3 p.m. Vaccination, Mon. and Thurs., 12 noon. Insanity, two days a week. *Examination*: Materia Medica and Pathology.

FIRST AND SECOND (WINTER) TERMS.—Clinical Medicine, 9—11 a.m. Medicine, 11 a.m.—12 noon or 12 noon—1 p.m.<sup>2</sup> Surgery,<sup>3</sup> 12 noon—1 p.m. or 11 a.m.—12 noon.<sup>1</sup> Midwifery, 2—3 p.m. Dispensary, 3 p.m.

5TH YEAR. THIRD (SUMMER) TERM.—Hospital Work. Medical Jurisprudence and Public Health, 11 a.m.—12 noon.<sup>4</sup> *Examination*: Medical Jurisprudence and Public Health.

FIRST AND SECOND (WINTER) TERMS.—Hospital Work, and Practical Courses on Special Subjects. *Examination*: Medicine, Surgery, and Midwifery.

In addition to the subjects mentioned, each candidate must attend courses of Operative Surgery, Practical Gynaecology,

<sup>1</sup> May be attended only by those who have passed the Second Professional Examination.

<sup>2</sup> At Royal Infirmary.

<sup>3</sup> If not already taken.

<sup>4</sup> Students are not permitted to join the class of Medical Jurisprudence and Public Health until their attendance on the classes in the subjects of the Third Professional Examination has been completed.

Diseases of Children, Ophthalmology, Diseases of the Ear, Diseases of the Throat and Nose, Dermatology, and Infectious Diseases, and must receive instruction in Practical Midwifery. These subjects should be taken during the last six terms of the curriculum.

(B) SUGGESTED SCHEME FOR STUDENTS COMMENCING  
IN WINTER.

1ST YEAR. FIRST (WINTER) TERM.—Zoology, 9—10 a.m. ; Practical Zoology, 11 a.m.—1 p.m. or 3—5 p.m. Chemistry, 10—11 a.m. ; Practical Chemistry (three days a week), 11 a.m.—1.30 p.m. or 2.30—5 p.m.

SECOND (WINTER) TERM.—Chemistry, 10—11 a.m. ; Practical Chemistry (two days a week), 1.30—4 p.m. Anatomy, 9—10 a.m. ; Practical Anatomy (three days a week), 1.30—4 p.m. *Examination* : Chemistry and Zoology.

THIRD (SUMMER) TERM.—Botany, 8—9 a.m. ; Practical Botany (three days a week), 9—11 a.m. or 1—3 p.m. Physics, 11 a.m.—12 noon ; Practical Physics (two days a week), 9—11 a.m. or 2—4 p.m. Practical Anatomy, 9 a.m.—4.30 p.m. *Examination* : Botany and Physics.

2ND YEAR. FIRST (WINTER) TERM.—Physiology, 12.30—1.30 p.m. ; Practical Physiology (two days a week), 9.30—11.30 a.m. Anatomy, 11.30 a.m.—12.30 p.m. ; Practical Anatomy, 9 a.m.—4.45 p.m.

SECOND (WINTER) TERM.—Physiology, 12—1 p.m. ; Physiological Chemistry (two days a week), 9.30—11.30 a.m. Practical Anatomy, 9 a.m.—4.45 p.m.

THIRD (SUMMER) TERM.—Pharmacy, 8—9 a.m. or 12 noon—1 p.m. Histology (two days a week), 9—11 a.m. Practical Anatomy, 9 a.m.—4.30 p.m. *Examination* : Anatomy and Physiology.

3RD YEAR. FIRST AND SECOND (WINTER) TERMS.—Clinical Surgery, 9—11 a.m. Materia Medica, 11 a.m.—12 noon. Surgery,<sup>1</sup> 12 noon—1 p.m. or 11 a.m.—12 noon.<sup>2</sup> Pathology and Practical Pathology, 2—3 p.m. Post-mortem Examinations, 10 a.m.

<sup>1</sup> May be attended only by those who have passed the Second Professional Examination.

<sup>2</sup> At Royal Infirmary.

THIRD (SUMMER) TERM.—Clinical Medicine, 9—11 a.m. Pathology and Practical Pathology (four days a week), 1—3 p.m. Vaccination, Mon. and Thurs., 12 noon. \*Insanity, two days a week. *Examination*: Materia Medica and Pathology.

4TH YEAR. FIRST AND SECOND (WINTER) TERMS.—Clinical Medicine, 9—11 a.m. Medicine, 11 a.m.—12 noon or 12 noon—1 p.m.<sup>1</sup> Surgery,<sup>2</sup> 12 noon—1 p.m. or 11 a.m.—12 noon.<sup>1</sup> Midwifery, 2—3 p.m. Dispensary, 3 p.m.

THIRD (SUMMER) TERM.—Clinical Surgery, 9—11 a.m. Medical Jurisprudence and Public Health, 11 a.m.—12 noon.<sup>3</sup> *Examination*: Medical Jurisprudence and Public Health.

5TH YEAR. FIRST, SECOND AND THIRD TERMS.—Hospital Work, and Practical Courses on Special Subjects. *Examination*: Medicine, Surgery, and Midwifery.

In addition to the subjects mentioned, each candidate must attend courses of Operative Surgery, Practical Gynaecology, Diseases of Children, Ophthalmology, Diseases of the Ear, Diseases of the Throat and Nose, Dermatology, and Infectious Diseases, and must receive instruction in Practical Midwifery. These subjects should be taken during the last six terms of the curriculum.

## I. CHEMISTRY.

This Professorship was founded by George III. in 1817, previous to which time (from 1747) there were Lecturers on Chemistry appointed by the University. The Professor is appointed by the Crown.

### *Lecturers.*

1747. William Cullen, M.D.	1769. William Irvine, M.D.
1756. Joseph Black, M.D.	1787. Thomas C. Hope, M.D.
1766. John Robison, LL.D.	1791. Robert Cleghorn, M.D.

### *Professors.*

1818. Thomas Thomson, M.D.	1852. Thomas Anderson, M.D.
1874. JOHN FERGUSON, M.A., LL.D., F.S.A.	
1915. (Vacant.)	

### *Assistants.*

James Roberts, F.C.S.	Andrew Henderson, M.A., B.Sc.
John M. Martin.	

<sup>1</sup> At Royal Infirmary.

<sup>2</sup> If not already taken.

<sup>3</sup> Students are not permitted to join the class of Medical Jurisprudence and Public Health until their attendance on the classes in the subjects of the Third Professional Examination has been completed.

**SYSTEMATIC CHEMISTRY.**—The Lectures are delivered daily at 10 A.M. during the winter session. They treat of the general principles of Chemical Philosophy and the preparation and properties of the Non-Metallic and the principal metallic elements and their compounds.

Attendance on this course qualifies for Degrees in Arts and Medicine and for the First Examination for Degrees in Science (Pure Science and Agriculture).

*Tutorial Classes.*—Students desiring to obtain a qualifying certificate for Degrees in connection with the systematic course are advised to give attendance if possible at one of the Tutorial Classes, each of which meets once a week. The teaching in these classes is supplementary to that given in the systematic lecture course, and is given partly by means of oral examination and written exercises in Chemical Arithmetic.

Written examinations of the whole class are held at intervals during the session. By the ordinances attendance at these examinations and attainment of the required standard are compulsory.

#### B.SC. DEGREE IN ENGINEERING AND CERTIFICATE OF PROFICIENCY IN ENGINEERING.

*In the Winter Session a qualifying course of Chemistry (65 meetings), to be attended by students of Engineering, Mining, or Naval Architecture, will be given by Dr. C. H. Desch. The class hour is 10 a.m. See also "Chemical Laboratories" below.*

**HIGHER COURSES.**—Courses in Metallurgical Chemistry and Metallography, and on Physical, Inorganic, and Organic Chemistry are given during the academical year.

**CHEMICAL LABORATORIES.**—The Laboratories are open daily (except Saturday) from 10 A.M. to 4 P.M. Junior students go through a course of inorganic preparations and qualitative analysis suitable for those proceeding to degrees in Medicine and Arts and to the First Examination for Degrees in Science. Medical students are required to spend at least two and a half hours a day at practical work. Those intending to proceed to the degree in Arts or to the first examination for a degree in Science are required to attend for  $3-3\frac{1}{2}$  hours per day during a half session or to take a full session course.

For the guidance of senior students a statement is given at page 293 of the Practical Laboratory Work, after completion of the qualifying course for the First Science Examination, required of candidates proceeding to the Final Examination in Chemistry (Principal Subject or Subsidiary Subject).

POST-GRADUATION STUDY AND RESEARCH.—Arrangements are made for graduates and others engaging in original investigation in Organic, Physical, and Metallurgical Chemistry. Particulars regarding scholarships, fellowships and bursaries tenable in the chemical laboratories may be obtained from the *Calendar* under these headings.

#### ORGANIC CHEMISTRY. •

(See Faculty of Science, p. 123.)

#### METALLURGICAL CHEMISTRY.

(See Faculty of Science, p. 124.)

#### PHYSICAL CHEMISTRY.

(See Faculty of Science, p. 125.)

### II. PHYSICS.

(See under Natural Philosophy in Faculty of Arts, p. 115.)

### III. BOTANY.

The subject of Botany was from 1718 conjoined with Anatomy. The combination being found unsuitable, a separate Lectureship on Botany was instituted, and ultimately, in 1818, the Professorship was founded. The appointment is vested in the Crown. (See p. 234, as to Botanic Garden.)

#### *Professors.*

1818. Robert Graham, M.D.	1845. G. A. Walker-Arnott, LL.D.
1820. Sir W. J. Hooker, LL.D.	1868. Alexander Dickson, M.D.
1841. John H. Balfour, M.D.	1879. I. B. Balfour, M.D., D.Sc.
1885. FREDERICK O. BOWER, Sc.D., F.R.S., D.Sc. ( <i>ad eund.</i> )	Sydney.

The elementary course in Botany for students in Medicine is held in the University during the summer session. This

is a qualifying course in Medicine only. Lectures are given every Tuesday, Wednesday, Thursday, Friday, and Saturday at 8 A.M. On certain Saturdays during the summer session microscopic demonstrations are given in the Laboratory.

Elementary practical classes for students in Medicine meet during the summer session from 9 A.M. to 11 A.M. or from 1 P.M. to 3 P.M., on Mondays, Wednesdays, and Fridays.

The course in Botany for the degree of M.A. and First B.Sc. consists of two qualifying half courses. The first, treating of the lower forms, is given in the first term (from October to December), and consists of twenty lectures and thirty meetings for practical work. The second half-course (which can only be taken by students who have already passed through the first half-course) treats of flowering plants, consists of thirty lectures and twenty meetings for practical work, and is held in the third term (from April to June). The Degree Examination Paper for M.A. and for First B.Sc. is the same.

Courses of advanced instruction designed for candidates for Final B.Sc. are arranged in both winter and summer sessions. A course of fifty lectures is given in the winter session on Mondays, Wednesdays, and Fridays, at 10 A.M.; in winter, 1918-19, they will deal specially with the Cryptogams.

In the summer session thirty advanced lectures are given on Physiology, and twenty advanced floral demonstrations. The demonstrations are open without fee to students who have already attended the course qualifying for first B.Sc. or M.A.

A practical course, dealing in the winter of 1918-19 with the Cryptogams, will be arranged in the Advanced Laboratory from October to March, meeting on Mondays, Wednesdays, and Fridays, from 9 A.M. onwards. The Laboratory will be open every day for work from 9 A.M. to 4 P.M.

A practical course will be arranged in the Advanced Laboratory in the summer session, dealing with Physiological Anatomy and Floral Morphology. It is in connection with this that thirty lectures will be given on Physiology at 8 A.M. on Mondays, Wednesdays, and Fridays, during the summer session, and twenty Floral Demonstrations, from 3 P.M. to 4 P.M., on Tuesdays and Thursdays.

The attention of students is directed to the almost complete set of Herbarium specimens of British plants shown in the

Museum. For further information reference may be made to the Professor.

*For the "Dobbie Smith" Gold Medal, see under "Prizes."*

*Herbarium Prize.*—A prize is offered to matriculated students who have passed through any qualifying Class of Botany in the University, for the best and approved Herbarium of Scottish Phanerogamous and Vascular Cryptogamous Plants, to be named after Hooker's *Students' Flora of the British Islands*. The specimens must have been collected upon the mainland of Scotland, or upon the Scottish Islands, between 1st April, 1918, and 1st October, 1919, and must have affixed, in addition to the name, the date and locality of collection.

The Herbaria must be sent, addressed to the Professor of Botany, to the University of Glasgow, on or before 1st October, 1919, and with each a sealed note bearing a motto outside, and containing the name of the competitor, with a declaration that the plants in the collection have all been gathered by himself (or herself) in Scotland, and within the period above stated, and that they have been named by him (or her) without assistance, save that derived from books or Herbaria.

The collections must be accompanied by a numbered and arranged list of the plants contained in them.

Students of the first year in Botany are informed that a similar prize will be offered in October, 1920, and are advised to begin collecting for that competition in April, 1919.

#### IV. ZOOLOGY.

This Professorship, under the name of Natural History, was founded by George III. in 1807. It originally comprehended both Zoology and Geology, but when the Chair of Geology was founded in 1903 by the University Court Ordinance No. VIII., it was provided that the Chair of Natural History should thenceforth be called the Chair of Zoology. The Professor is appointed by the Crown.

##### *Professors.*

1807. Lockhart Muirhead, LL.D.	1857. Henry D. Rogers, LL.D.
1829. Wm. Couper, M.D.	1866. John Young, M.D.
1902. J. GRAHAM KERR, M.A., F.R.S.	

*Lecturer in Zoology*—W. E. AGAR, D.Sc., M.A.

*Lecturer in Zoology with special reference to Protozoology*—  
J. S. DUNKERLY, B.Sc.

Lectures on Zoology, including Comparative Morphology, are given daily throughout the academical year.

WINTER TERM.—This course (9 A.M.) is of an introductory character. In it Protozoology is treated in considerable detail while the more important groups above the Protozoa are treated in outline, special attention being devoted to such as are of general zoological interest, and to such as are, from their parasitic habits or otherwise, of special importance to the student of Medicine. Details of the anatomy of the higher Vertebrates are not dealt with.

In connexion with this Course, a Laboratory Class in Elementary Practical Zoology will be held daily from 11 A.M. to 1 P.M., and, if necessary, repeated in the afternoon from 3 P.M. to 5 P.M. In this class students will examine for themselves examples of the main groups treated of in the systematic lectures.

Candidates for the First Professional and other degree examinations in Zoology should note that the Examiners attach importance to the candidate's performance in the Practical Examination and to the record of his work in the Practical Class.

SPRING TERM.—The Lectures and Practical Work deal with selected groups of invertebrates which have not been included in the preceding term's work.

SUMMER TERM.—The Lectures (at 9 A.M. or such other hour as may fit in better with the other courses attended by members of the class) deal with the Morphology of the Vertebrata—including Comparative Anatomy and Embryology. In the laboratory, students have the opportunity of dissecting examples of the main groups of vertebrates and of studying practically the embryology of the Bird. Instruction is given and practice provided in the ordinary methods of staining, section-cutting, etc.

Students desirous of attending this course but prevented from doing so by the hour clashing with that of other classes are requested to give notice so that if possible the lecture hour may be altered.

#### SPECIAL COURSES.

EVOLUTION.—During the Spring Term the Professor of Zoology gives a short course of elementary lectures on the Theory of Evolution. The lectures are given on Wednesdays at 4 P.M., and are open free to past or present members of the systematic class.

**HEREDITY.**—During the Spring Term the Lecturer in Zoology gives a course of lectures upon Heredity, Variation, and the Cytology of Reproduction. These lectures form part of the systematic course for candidates for M.A. or First B.Sc. and are open to external students on payment of a fee of one guinea.

**\*PROTOZOOLOGY AND PARASITOLOGY.**—During the Summer Term the Lecturer in Protozoology gives a course of instruction in this subject suitable for students of Medicine and Science. The course consists of lectures and practical work, and is open free to members of the classes of Botany and Zoology. The fee for persons who are not members of the classes mentioned is two guineas.

**\*EXPERIMENTAL ZOOLOGY.**—A short course in Experimental Zoology, consisting of lectures with accompanying laboratory work, will be given during the Summer Term.

During the Easter and Summer Vacations and on certain Saturdays during the Summer term instruction is given in Practical Marine Zoology at the Bute Laboratory and Museum, Rothesay, where facilities have kindly been provided by the Marquess of Bute. Students, especially of Arts and Science, are strongly recommended to take full advantage of these facilities.

The Zoological collections in the Hunterian Museum, though as yet only partially adapted to teaching purposes, are open free to students.

**Text-books:** Shipley and MacBride, *Zoology*, or Sedgwick, *Textbook of Zoology*; Marshall and Hurst, *Practical Zoology*; Minchin, *Introduction to the Study of the Protozoa*; MacBride, *Embryology*; Kellicott, *General Embryology*; Graham Kerr, *Embryology of the Lower Vertebrates*.

#### V. ANATOMY.

This Professorship, with which Botany was at first associated, was founded in 1718 by the Crown and University jointly. After 1818 the province of the Chair was restricted to Anatomy.

##### *Professors.*

- |  |                              |
|--|------------------------------|
| 1720. Thomas Brisbane, M.D.  | 1781. William Hamilton, M.D. |
| 1742. Robert Hamilton, M.D.  | 1790. James Jeffray, M.D.    |
| 1756. Joseph Black, M.D.   | 1848. Allen Thomson, M.D.,   |
| 1757. Thos. Hamilton, M.D.   | LL.D., F.R.S.                |
| 1877. John Cleland, M.D., LL.D. (St. A., Ed. and Gl.), D.Sc., F.R.S. |                              |
| 1909. THOMAS H. BRYCE, M.A., M.D.                                    |                              |

\* Courses so marked are interrupted for the present owing to the absence of the Lecturers on Military Service.

*Senior Demonstrator.*

Thomas Walmsley, M.D.

Instruction in Anatomy extends over five terms. Two courses of Lectures, each of ten weeks' duration, are given, while Tutorial Classes and Demonstrations on Regional Anatomy and Surface Anatomy are organised in connection with the Practical Class.

SYSTEMATIC LECTURES.—The FIRST COURSE OF LECTURES is given in the second term of the Session, and is taken by the student in his first year of study. The Class meets five days weekly, and the course consists of a general introduction to the study of Human Anatomy. The SECOND COURSE OF LECTURES is given in the first term of the Session, and is taken by the student in his second year of study. The Class meets five days weekly, and the Lectures treat of the Anatomy of the Viscera, Nervous System, and Organs of Sense.

TUTORIAL INSTRUCTION.—Tutorial Classes on Osteology are given in the summer term, and are designed for students who have taken the first course of Lectures in the previous term.

DEMONSTRATIONS ON REGIONAL ANATOMY.—Demonstrations on Topographical Anatomy are conducted in each term throughout the course, and are organised in connection with the Practical Class.

SURFACE ANATOMY.—A class on this subject is conducted during the summer, and meets twice weekly.

#### EMBRYOLOGY.

The Lectureship on Embryology was instituted by the University Court in 1894.

#### *Lecturers.*

1894. John Yule Mackay, M.D.

1897. James F. Gemmill, M.A., M.D., D.Sc.

1918. THOMAS WALMSLEY, M.D.

The *Systematic Class* meets three days a week during the summer term.

A *Laboratory Class* of three months' duration may be taken in any term of the Session. The course includes:—

I. Instruction in methods.

II. Work on Mammalian Development, with special reference to Organogeny in the human subject, and to the membranes and placenta.

III. Such special work in Human and Comparative Embryology as may be found most suitable in view of the particular aims or needs of individual students.

Facilities are also given for post-graduate study or research.

PHYSICAL ANTHROPOLOGY.—Lectures and demonstrations with practical work on Physical Anthropology are given in the summer term, and are designed specially for students preparing for the degree of B.Sc.

PRACTICAL ANATOMY.—The Dissecting Room is open from 9 A.M. till 4.45 P.M. daily, except on Saturdays, when it is closed at mid-day. Students of the Practical Class are required to do, as a minimum, 10 hours of dissection each week.

The Embryological Laboratory is open from 9 A.M. to 4.45 P.M. during all three terms.

## VI. PHYSIOLOGY.

This Professorship was founded by Her Majesty, Queen Victoria, in the year 1839, under the name of Theory of Physic. It was subsequently known as Institutes of Medicine, and is now, in accordance with Ordinance No. 31 of date 5th June, 1893, designated Physiology.

### *Professors.*

1839. Andrew Buchanan, M.D.

1876. John Gray M'Kendrick, M.D., LL.D., F.R.S.,  
F.R.S.E., F.R.C.P.E.

1906. DIARMID NOËL PATON, M.D., B.Sc., F.R.C.P.Ed.,  
F.R.S.

### I. SYSTEMATIC LECTURES.

The Lectures and Demonstrations of this course are given at 12.30 P.M. during the first term, and at 12 during the second

term, of the winter session. They are devoted to an exposition of the main principles and facts of the Physiology of Man.

Examinations are held during the session.

## II. PRACTICAL PHYSIOLOGY.

This class consists of three parts :

- (a) Practical Histology.
- (b) Practical General Physiology.
- (c) Practical Chemical Physiology.

(a) Practical Histology is taught during the *summer session*. Sections of the class meet from 9 A.M. to 11 A.M. daily, and in smaller sections at other hours for special work.

This course includes instruction in the use of the microscope, in the microscopical examination of the various tissues and organs, and in the methods of hardening, staining, cutting, and mounting preparations.

(b) Practical General Physiology is taken between October and Christmas, each section meeting twice a week from 9.30 to 11.30 A.M. The ordinary experimental methods of physiology are studied practically, and special demonstrations are given from time to time.

(c) Practical Chemical Physiology is taken after Christmas, each section meeting twice a week from 9.30 to 11.30 A.M. The methods of chemical examination of the fluid and solid constituents of the body are dealt with.

*Practical Histology should, in the case of students beginning their studies in summer, be taken in the summer before the Lectures, and by all students Practical General Physiology and Chemical Physiology should be taken along with the Lectures.*

## III. ADVANCED CLASS OF PRACTICAL PHYSIOLOGY.

This Class is intended to meet the requirements of candidates for the Degree of B.Sc. It meets during the winter and summer sessions at suitable hours. The course extends to at least 100 hours in winter, and at least 60 hours in summer. It embraces (a) the more advanced methods of Physiological Chemistry, (b) special methods in advanced Histology, and (c) the more advanced methods of experimental investigation. It is wholly

practical, and is designed to supplement the instruction given in the ordinary class of Practical Physiology, *which must have been previously attended*. Candidates for the Degree of B.Sc. in Pure Science who have specialised in one or more of the branches of the subject enumerated on p. 295 engage in practical work in the Laboratory upon their selected branch for at least one term.

iv. Short Courses of Advanced Lectures will be given from time to time on special parts of Physiology.

#### V. THE LABORATORIES.

The Laboratories are open daily, under the superintendence of the Professor, Lecturers and Assistants. Application should be made to the Professor by those who may wish to pursue original investigation.

*Text-books*: Noël Paton, *Essentials of Human Physiology*; Howell, *Text-book of Physiology*; Noël Paton and Cathcart, *Practical Course of Chemical Physiology*; Noël Paton and G. H. Clark, *A Practical Course of General Physiology for Medical Students*; Noël Paton and A. Watson, *Guide to the Practical Study of Histology*; and, for the advanced classes, such books as may be recommended from time to time.

#### VI. GRIEVE LECTURESHIP ON PHYSIOLOGICAL CHEMISTRY.

*Lecturer*.—1905. Edward P. Cathcart, M.D., D.Sc.

1915. (Vacant).

The course of lectures delivered under this foundation is on the higher aspects of chemical physiology with special reference to the chemistry of the various metabolic processes. Each year some special subject is chosen for more thorough treatment.

This course may be regarded as an extension of the physiological chemistry taught in the advanced practical class. The lectures will be illustrated, as far as possible, by means of experiments.

The laboratory for physiological chemistry will be available during both the winter and the summer session for special research.

*As to the Muirhead Demonstratorship of Physiology, see p. 197. As to the Grieve Lectureship in Physiological Chemistry, see p. 198.*

## VII. LECTURESHIP ON PSYCHOLOGY.

*Lecturer.*—1908. Henry J. Watt, M.A., Ph.D., D.Phil.

Students who desire to include Psychology in the work for the B.Sc. examination in Physiology will attend the class on Experimental Psychology (*v. p.* 104).

The psychological laboratory is available for special research.

## VII. MATERIA MEDICA AND THERAPEUTICS.

A Lectureship on this subject was founded by the College in 1766, and a Professorship created by the Crown in 1831.

*Lecturers.*

1766. William Irvine, M.D.	1788. Robert Cleghorn, M.D.
1787. Thomas C. Hope, M.D.	1791. Richard Millar, M.D.

*Professors.*

1831. Richard Millar, M.D.	1865. John B. Cowan, M.D.
1833. John Couper, M.D.	1880. Matthew Charteris, M.D.
1855. John A. Easton, M.D.	1897. RALPH STOCKMAN, M.D.

In the courses of instruction and in the scheme of professional examinations prescribed by the Ordinances, the subjects included in the province of this chair comprise the two branches of *Materia Medica* and *Therapeutics*. In the summer course of Practical Pharmacy, which it is advisable to take before the winter course, attendance at twenty-five meetings of the class is required. Instruction is given in compounding official preparations, in writing prescriptions, and in dispensing, supplemented by demonstrations of the more important substances in the British Pharmacopœia. The winter course is devoted to Pharmacology and Therapeutics, the official drugs of the British Pharmacopœia being systematically considered in relation to their actions, and applications in disease. In addition, lectures are given on the therapeutical aspects of Dietetics, Mineral Waters and Baths, Climate, Massage, etc.

*Text-books.*—The manuals of *Pharmacology*, by Dr. W. E. Dixon, and of *Materia Medica and Therapeutics*, by Dr. Hale White, Dr. Mitchell Bruce, and Sir William Whitla; *Text-*

*Book of Materia Medica*, by Dr. C. R. Marshall; *Practice of Medicine*, by Dr. Charteris. More advanced books are: *Therapeutics*, by Dr. H. C. Wood; *Text-book of Pharmacology and Therapeutics*, edited by Dr. Hale White; and *Text-book of Pharmacology*, by Dr. A. R. Cushny.

#### VIII. PATHOLOGY.

This Chair was founded by Ordinance No. 29 of the Universities Commission (1889) of date 5th June, 1893. The patronage is vested in seven Curators, of whom four are nominated by the University Court and three by the Directors of the Western Infirmary. By agreement with the Western Infirmary, full accommodation and facilities for teaching are provided for the University in the Pathological Institute at the Western Infirmary. By mutual arrangement the Professor is the Pathologist to the Infirmary, and the whole material of that institution is available for teaching purposes.

Before the founding of the Chair, Pathology had been taught by Dr. Joseph Coats, who was appointed Lecturer in 1890, and who also held the office of Pathologist to the Western Infirmary.

##### *Professors.*

1894. Joseph Coats, M.D.

1899. ROBERT MUIR, M.A., M.D., Sc.D., F.R.S.

*Assistant*—J. W. M'Nee, M.D., Ch.B.

*Lecturer in Bacteriology*—G. Haswell Wilson, M.B., Ch.B.

The course in Pathology and Practical Pathology extends over a winter and summer session. Students are requested to observe that the course starts in winter, and are recommended not to commence their pathological studies in summer.<sup>1</sup>

In the winter session the class meets for an hour daily. There will be (a) lectures with demonstrations on general pathology, including the disturbances of the circulation, the general pathology of infection, fevers, etc., (b) Meetings for practical work in special histology and bacteriology. Of these there will be about twenty. Tutorial classes are also held during the session.

<sup>1</sup> That is, students under the new regulations. Those under the Old Ordinance may commence in summer.

In the summer session the class meets for two hours on four days each week. About fifteen lectures of an hour each are given on subjects not already treated in the winter course; with this exception all the work is practical. The students prepare and examine sections illustrating the main subjects of General and Special Pathology, and Demonstrations of Morbid Anatomy are also given. The methods of Bacteriology are taught in small classes of about twenty students.

The Museum of the Western Infirmary is open to all Infirmary students, and a printed catalogue is provided. The post-mortem examinations, which are conducted from 10 A.M. onwards, are also open to the students. Each student during his curriculum must attend at least twenty post-mortems, and must produce evidence that he has received instruction in the methods of post-mortem examination.

*Post-graduation or Laboratory Courses in Practical Pathology and Bacteriology* begin annually in October. These courses are open also to senior students. Particulars may be obtained from the Professor.

*Text-books.*—*A Manual of Pathology* by Dr. Joseph Coats, *A Manual of Pathology* by Beattie and Dickson, or a *Text-book of Pathology* by Adami and M'Crae; *Practical Pathology* by Dr. G. Sims Woodhead; and a *Manual of Bacteriology* by Drs. Muir and Ritchie.

The following works are also recommended: Cohnheim, *Lectures on General Pathology*; Thoma, *Handbook of General Pathology*; Adami, *Principles of Pathology*; and Metchnikoff, *Comparative Pathology of Inflammation*.

## IX. LECTURESHIP ON CLINICAL PATHOLOGY.

### *Lecturers.*

1911. Carl H. Browning, M.D.

1914. J. SHAW DUNN, M.A., M.D.

Practical Courses in Clinical Pathology are conducted in the Laboratory of Clinical Pathology of the Western Infirmary by the Lecturer, who is also Director of the Laboratory. The classes are open to graduates and to senior students of Medicine. The subjects taken up include Blood-examination; Cytodiagnosis;

Clinical Bacteriology (blood-cultures, diphtheria-diagnosis, detection of spirochaetes, vaccines, etc.); Serodiagnosis (Widal-reaction, Wassermann reaction, opsonic estimations); Examination of Stomach-contents and Faeces; qualitative and quantitative estimation of urinary constituents in pathological conditions, etc.

A course is given in the first term of the Winter Session, and will be repeated in subsequent terms according to the number of applicants.

#### X. PATHOLOGY—(ST. MUNGO (NOTMAN) CHAIR).

This Chair was founded by University Court Ordinance No. XXXIV., Glasgow No. 10, approved by His Majesty in Council on 5th July, 1911. The Ordinance was made by the University Court in pursuance of certain provisions of the St. Mungo's College Order 1910, which was confirmed, under the Private Legislation Procedure (Scotland) Act 1899, by an Act of Parliament dated 26th July, 1910. The patronage is vested in eleven Curators, of whom seven are nominated by the University Court, two by the Managers of the Royal Infirmary, and two by the Governors of St. Mungo's College. By an agreement between the University Court and the Managers of the Royal Infirmary, the Professor is provided at that Infirmary with accommodation and facilities for teaching. The Professor is *ex officio* Pathologist to the Royal Infirmary, and the whole material of the institution, and the class-rooms and laboratories of the new Pathological Institute, which was opened in September 1911, are available for teaching purposes. The first appointment to the Chair was made in 1911.

*Professor.*

1911. JOHN H. TEACHER, M.A., M.D.

*University Assistant*—ARTHUR DE GROOT, M.D. (Brussels).

The course in Pathology and Practical Pathology is, so far as possible, identical with that given in the Pathological Institute at the Western Infirmary.

The Museum of the Royal Infirmary and the post-mortem examinations (from 9.30 to 11.30 a.m.) are open to all Infirmary students. The post-mortem examinations are very

numerous, and the opportunities for the study of morbid anatomy correspondingly good.

*A Laboratory Course in Bacteriology for Graduates and Senior Students* will be given annually, beginning in January. The Class will meet four days weekly, and the Laboratory will also be open daily. Particulars may be obtained from the Professor.

Text-books: *A Manual of Pathology*, by Dr. Joseph Coats; *A Manual of Pathology*, by Beattie and Dickson, or a *Text-book of Pathology*, by Adami and M'Crae; *Practical Pathology*, by Dr. G. Sims Woodhead; *Post Mortems and Morbid Anatomy*, by T. Shennan; and a *Manual of Bacteriology*, by Drs. Muir and Ritchie. The following works are also recommended: Cohnheim, *Lectures on General Pathology*; Thoma, *Handbook of General Pathology*; Adami, *Principles of Pathology*; Metchnikoff, *Comparative Pathology of Inflammation*, and Pembrey and Ritchie, *General Pathology*.

## XI. FORENSIC MEDICINE.

This Professorship was created by the Crown in 1839.

### *Professors.*

1839. Robert Cowan, M.D. | 1841. Harry Rainy, M.D.  
 1872. Pierce Adolphus Simpson, M.A. (Cantab.), M.D.  
 1898. JOHN GLAISTER, M.D., D.P.H. (Camb.), F.C.S., F.R.S.E.

This class for Medical Jurisprudence meets daily at 11 A.M. during the summer session, and at 8 A.M. for Public Health.

The Lectures on Medical Jurisprudence will, as far as possible, elucidate the application of every branch of Medical Science to the purposes of the law.

In the department of Public Health special attention will be given to the subjects of Air, Ventilation and Heating, Water, Injurious Trades, Law respecting Infectious Diseases, Disinfection, Disposal of Sewage and Refuse, Vital Statistics, and Sanitation in general.

During the session students will have an opportunity of visiting, along with the Professor or his assistants, the most important public institutions and works in the district dealing with Disposal of Sewage and Refuse, Disinfection, Ventilation, etc.

Demonstrations, macroscopic and microscopic, will be given frequently during the session, illustrating, as far as possible, the whole range of Medical Jurisprudence and Public Health.

Written and oral examinations (attendance at which is compulsory) will be held at intervals.

In addition, facilities will be given for studying Practical Toxicology in the Medico-Legal Laboratory at the University.

*Text-books* (for Class of Medical Jurisprudence and Public Health). Dixon Mann, *Manual of Medical Jurisprudence*; Hofmann, *Atlas of Legal Medicine* (English edition, 1898); Glaister, *Text-books of Forensic Medicine and Toxicology, and of Public Health* (3rd edition, 1915); Glaister, *Manual of Public Health for Students, etc.* (2nd edition, 1905).

#### PUBLIC HEALTH FOR DEGREES IN SCIENCE.

This class will meet four days weekly during the winter session at 12 noon. The lectures will deal with the Sanitation of Dwellings, Medicine in its relation to Public Health, Vital Statistics and Statistical methods, Sanitary Law, etc. (see Ordinance for Degrees in Public Health, p. 328). The subjects under consideration will, as far as possible, be illustrated by demonstrations, visits to public institutions and public health works in Glasgow and neighbourhood, and by other means. The number of meetings of the class is seventy-five. The class is open, after matriculation and payment of the class fee, to Candidates for the Diplomas in Public Health of the Universities of Cambridge, Oxford, and Durham, and of the English, Scottish, and Irish Colleges. According to the Regulations of the General Medical Council, attendance thereat will be accepted in lieu of the second three months' attendance at the office of a recognised Medical Officer of Health for Practical Sanitation.

*Text-books*—Balfour and Lewis, *Manual of Hygiene and Public Health*; Parkes and Kenwood, *Manual of Hygiene and Public Health*; Glaister, *Text-book of Public Health*, vol. ii. (2nd edit., 1910); Robertson and M'Kendrick, *Sanitary Law and Practice*; Hime, *Sanitary Law*; Local Government Board for Scotland, *Instructions, Forms, etc., to Local Authorities*.

LABORATORY INSTRUCTION IN PUBLIC HEALTH.—The Public Health Laboratory is under the personal supervision of Professor Glaister and his assistants, and is open from 10 A.M. to 4 P.M. daily, for practical instruction in the methods of analysis

of air, water, soils, foods, and the detection of adulterations; and for instruction in practical meteorology, sanitary appliances, physics, and practical bacteriology, in relation to public health.

*Air.*—Estimation of carbonic acid, by Pettenkofer's and other methods; detection and examination of gaseous impurities; estimation of organic impurity by ammonia and Carnelly's process; microscopic examination of matters in suspension; estimation of humidity, dew-point, and tension of vapour.

*Water.*—Qualitative and quantitative analysis; microscopical examination of sediments; physical and biological examination; comparison and estimation of value of filtering media and filters; mineral and medicinal waters.

*Sewage.*—Effects of purification processes; analysis of raw sewage and sewage effluents.

*Soils.*—Chemical and physical examination.

*Foods.*—Analysis and detection of adulterants; microscopic examination of food-stuffs; physical, microscopical, and chemical examination of milk; analysis of milk, cream, butter, cheese, and oils used as foods; microscopical examination and chemical analysis of starchy foods, sugars, tea, coffee, cocoa, pepper, etc.; examination of preserved foods and detection of their adulterations.

*Disinfectants.*—Their valuation and comparison; examination of pigments in articles of attire, wall-papers, and those used in trade.

*Bacteriology.*—Methods of investigation, cultivation, and transmission; preparation of culture media; bacteriological examination of air, water, foods, blood, earth, etc.; micro-photographic processes.

*Microscopy.*—Examination of food substances; parasites—animal and vegetable; crystalline deposits; micro-organisms.

*Meteorological Instruments.*—Barometer, thermometers, different kinds; rain gauges; anemometers and manometers; hygrometers, and the different forms of these instruments.

The Laboratory is furnished with all the necessary chemical apparatus, etc., required for analysis, and each worker is furnished with a set of apparatus for personally doing the work, and for which he is held personally responsible.

In the Departmental Museum there is a complete collection of model sanitary appliances, including traps; soil stacks; soil pipes; ventilators; meteorological instruments; and an abundant collection of drawings, diagrams, and illustrative tables; and in the Departmental Library, a selection of books of reference relating to Public Health.

The Laboratory also possesses a large collection of microscopic specimens illustrative of parasites—animal and vegetable—food characteristics, of bacteriology and of tropical diseases.

Visits will be made, as arranged, during the Session, to view and inspect modes of disposal of refuse, sewage disposal, unhealthy trades, etc.

The Laboratory instruction is recognised for the Diplomas in Public Health of the Triple Scotch Colleges, of the English Colleges, and of the Universities of Cambridge, Oxford, and Durham, under the new regulations.

*Text-books* (for Public Health Laboratory).—Sommerville, *Public Health Laboratory Work*; Kenwood, *Public Health Laboratory Work*; Pakes, *Public Health Laboratory Work*; Hewlett, *Manual of Bacteriology*, 1898; Muir and Ritchie, *Manual of Bacteriology*, 1910; Slater and Spitta, *Atlas of Bacteriology*, 1898.

N.B.—(See under Faculty of Law, p. 177.)

## XII. SURGERY.

This Professorship was founded in 1815, and is in the gift of the Crown.

### *Professors.*

1815. John Burns, M.D.	1860. Joseph Lister, M.B., F.R.S.
1850. James A. Lawrie, M.D.	1869. Sir George H. B. Macleod, M.D., LL.D., F.R.S.E.
1892. SIR WILLIAM MACEWEN, F.R.S.	

*First Assistant*—John A. C. Macewen, B.Sc., M.B., C.M.

*Second Assistant*—(vacant).

The Professor delivers during winter a course consisting of systematic lectures, illustrated by diagrams, casts, and pathological preparations, and of frequent demonstrations. There are three written examinations. The following is a general outline of the course:—Anaesthesia, on which a Special Examination

is held early in the session ; wounds and their varieties ; haemorrhage and its arrest ; the phenomena of destruction and repair of tissues ; inflammation ; surgical bacteriology ; infective processes and diseases dependent upon bacteria and their products ; neoplasms ; injuries, including fractures and dislocations ; Regional Surgery.

During summer Operative Surgery is conducted daily, and consists of descriptive instruction by the Professor in the principal operations, and the performance of recognised operations by the students under supervision.

In the course of Clinical Surgery which the Professor conducts both winter and summer at the Western Infirmary, as part of the regular Clinical Instruction given to University students, practical instruction is given in the methods of clinical observation, surgical diagnosis and treatment. The Professor also takes occasion, as far as the material is available, to draw the attention of the students to the points illustrative of the principles taught in the systematic course.

Students who hold the certificate for theoretical instruction in Anaesthetics are allowed, under supervision, to administer anaesthetics, and, on satisfactorily completing the course, are granted the full Anaesthetic Certificate.

### XIII. SURGERY—(ST. MUNGO CHAIR).

In May 1874 a Chair of Clinical Surgery was founded in the University, and the right of presentation to the Chair was vested in the University Court. Professor GEORGE BUCHANAN occupied the Chair from 1874 till 1900, and Professor Sir HECTOR C. CAMERON from 1900 till 1910.

By the provisions of University Court Ordinance No. XXXIV., Glasgow No. 10, the title of the Chair was altered to St. Mungo Chair of Surgery, the duties of the Professor were modified, and the patronage was vested in eleven Curators, of whom seven are nominated by the University Court, two by the Managers of the Royal Infirmary, and two by the Governors of St. Mungo's College. This Ordinance was made by the University Court in pursuance of the provisions of the Glasgow University (Chair of Clinical Medicine and Chair of Clinical Surgery) Order 1910, and the St. Mungo's College Order 1910, which were confirmed, under the Private Legislation Procedure (Scotland) Act 1899, by an Act of Parliament

dated 26th July, 1910. In virtue of these arrangements the Governors of St. Mungo's College provided certain funds for the purpose of augmenting the emoluments of the Chair, to which the first appointment was made in 1911. By an agreement between the University Court and the Managers of the Royal Infirmary, the Professor is provided at that Infirmary with accommodation and facilities for teaching.

*Professor.*

1911. ROBERT KENNEDY, M.A., D.Sc., M.D.

*University Assistant*—W. Campbell Mackie, M.B., Ch.B.

Three courses of instruction are given at the Royal Infirmary.

I. SYSTEMATIC SURGERY. The following is a classification of the work in this class, which meets at 11 a.m. daily during the winter session: 1. Surgical Pathology. 2. Surgical Parasitology and diseases caused by parasites. 3. Wounds. 4. Injuries and diseases of special tissues. 5. Tumours. 6. Regional Surgery. 7. Anaesthesia.

The course includes tutorial work by the University Assistant.

II. OPERATIVE SURGERY. In this class, which meets at 11 a.m. during the summer session, each student performs on the dead body all the more important operations. The practical work extends over not less than one month and consists of not less than 30 hours' instruction.

III. CLINICAL SURGERY. This course is conducted in the Wards set apart for the University Surgical teaching in the Royal Infirmary (Wards 25, 26, and 27). The class meets daily at 9 a.m. In addition to witnessing all the operations of the department, each student is required to take an actual part in the Ward work and is given opportunities of obtaining practical experience in:

1. Surgical diagnosis;
2. Use of surgical apparatus and appliances;
3. Administration of anaesthetics.

Certificates of proficiency in the administration of anaesthetics are given in accordance with the Ordinance after the student has received theoretical instruction, and has satisfactorily acquired practical experience in their administration.

## XIV. PRACTICE OF MEDICINE.

This Professorship, created in 1637, but long suppressed for want of revenue, was revived by the College in 1712, and endowed by Queen Anne in the following year. It is in the gift of the Crown.

*Professors.*

1714. John Johnstoun, M.D.	1852. John M'Farlane, M.D.
1751. William Cullen, M.D.	1862. Sir W. T. Gairdner,
1756. Robert Hamilton, M.D.	K.C.B., M.D., LL.D., F.R.S.
1757. Joseph Black, M.D.	1900. Sir Thomas M'Call
1766. Alex. Stevenson, M.D.	Anderson, M.D.
1789. Thomas C. Hope, M.D.	1908. Samson Gemmell, M.D.
1796. Robert Freer, M.D.	1913. T. K. Monro, M.A.,
1827. Charles Badham, M.D.	M.D.
1841. William Thomson, M.D.	

*First Assistant*—George A. Allan, M.B., Ch.B.

*Second Assistant*—Adam Patrick, M.A., M.D.

The lectures and other instruction given from this Chair are intended to teach the principles and practice of the Healing Art, in so far as this comes within the province of the physician and of the general practitioner, as distinguished from the surgeon and the specialist. While the paramount importance of clinical or bedside work has been increasingly and justly recognised in recent years, it nevertheless remains true that a certain amount of systematic teaching is essential, whether this is to be obtained from text-books or from lectures; and experience has fully demonstrated the advantage to be derived from a combination of the written and the spoken word. Clinical instruction is not sufficient, because it necessarily depends upon the material which happens to be available in the hospital wards, and because the safety and comfort of the patients, and the nursing and administrative arrangements, restrict the number of hours which can be spent each day, by students, in the examination of the sick. Systematic instruction of itself is still less sufficient, since it furnishes none of that training of the senses which is necessary for the proper recognition of disease, nor does it provide for the acquisition of certain indispensable methods of physical diagnosis which can only be mastered by actual practice at the bedside.

The scope of the Practice of Medicine is so extensive that no satisfactory attempt to cover it could be made in the two terms of a Winter Session. Nevertheless the fundamental principles on which are based the Arts of Diagnosis, Prognosis and Treatment (which together may be said to constitute the *practice* of Medicine) may be inculcated in a much shorter period, through a detailed study in the lecture room of a series of different types of disease. The general arrangement of the course is that the more important diseases of certain organs and systems of the body are considered, so far as time will permit, in one Winter Session, and that those parts of the subject which are not overtaken in this way are considered first in the ensuing Winter.

Additional instruction is given in the Summer term by the University Assistants, on two days in each week. This course is open, without fee, to students who have already attended the qualifying Winter course.

Three written examinations are held in the Winter Session, and the Gairdner medal and certificates of merit are awarded in accordance with the results of this necessary portion of the class-work.

The dies for the portrait-medal of Sir William T. Gairdner, K.C.B., were presented to the University, along with a portrait of Gairdner, by his former students, on 28th January, 1893.

The Professor conducts at the Western Infirmary, both in Winter and in Summer, qualifying courses of clinical instruction for the medical students of the University. A Cullen medal and certificates of merit are awarded at the close of each Session in accordance with the results of the class examinations.

*Text-books.*—Of the numerous treatises which are available, Osler's *Principles and Practice of Medicine* and Monro's *Manual of Medicine* may be named as suitable systematic works, while Hutchison and Rainy's *Clinical Methods* may be selected as a useful clinical manual.

#### XV. MEDICINE—(MUIRHEAD CHAIR).

In May 1874 a chair of Clinical Medicine was founded in the University, and the right of presentation to the Chair was vested in the University Court. Professor THOMAS M'CALL

ANDERSON occupied the Chair from 1874 till 1900, and Professor SAMSON GEMMELL from 1900 till 1908.

By the provisions of University Court Ordinance No. XXXIV., Glasgow No. 10, the title of the Chair was altered to Muirhead Chair of Medicine, the duties of the Professor were modified, and the patronage was vested in eleven Curators, of whom seven are nominated by the University Court, two by the Managers of the Royal Infirmary, and two by the Trustees of the late Henry Muirhead, M.D., LL.D. This Ordinance was made by the University Court in pursuance of the provisions of the Glasgow University (Chair of Clinical Medicine and Chair of Clinical Surgery) Order 1910, and the Muirhead Trust Order 1910, which were confirmed, under the Private Legislation Procedure (Scotland) Act 1899, by an Act of Parliament dated 26th July, 1910. In virtue of these arrangements the Trustees of the late Henry Muirhead provided certain funds for the purpose of augmenting the emoluments of the Chair, to which the first appointment was made in 1911. By an agreement between the University Court and the Managers of the Royal Infirmary, the Professor is provided at that Infirmary with accommodation and facilities for teaching.

*Professor.*

1911. WALTER K. HUNTER, M.D., D.Sc.

*University Assistant*—Alex. M. Kennedy, M.D.

The Professor gives instruction both in Systematic and in Clinical Medicine.

I. THE SYSTEMATIC COURSE of lectures is given in the Medical School of the Royal Infirmary at 12 noon, five days a week, during the winter session.

The subject of study is the etiology, diagnosis, prognosis and treatment of disease in so far as it relates to internal medicine. It is not found possible to overtake the whole of this in one winter session, but diseases omitted are always included in the following winter's syllabus.

II. CLINICAL MEDICINE is taught in Wards 8 and 9 of the Royal Infirmary, at 9.15 a.m., five days a week, during the winter and the summer session. The instruction takes the form of lecture-demonstration, as well as Ward visitation; and three days a week the class is divided into sections for the more

systematic study of the various methods of physical diagnosis. Senior students are expected to act as clinical clerks and to report the cases as they are admitted to the Wards.

Text-books: *Principles and Practice of Medicine*, by Osler; *Manual of the Practice of Medicine*, by Taylor; *A Text-book of the Practice of Medicine*, by Roberts; *Elements of Practical Medicine*, by Carter; *Clinical Methods*, by Hutchison and Rainy.

## XVI. MIDWIFERY.

This subject was originally taught as part of the course in Anatomy, but in 1790 the Faculty of the College appointed Mr. James Towers to be Lecturer in Midwifery, and in 1792 assigned him a salary out of the Walton Fund. In 1815 the Chair was founded by George III., and Mr. Towers became the first Professor. The Crown is the Patron.

### *Professors.*

1815. James Towers, O.M.	1834. William Cummin, M.D.
1820. John Towers, C.M.	1840. John M. Pagan, M.D.
1833. Robert Lee, M.D.	1868. William Leishman, M.D.
1894. MURDOCH CAMERON, M.D.	

The Lectures embrace the Theory and Practice of Midwifery and the Diseases of Children. The Professor was Physician to the University Lying-in Hospital and Dispensary, an institution which was many years ago established in the neighbourhood of the old College. The altered circumstances of the school having, however, rendered this situation unavailable for Clinical instruction, other arrangements have now been made by which the Managers of the Western Infirmary have placed a ward for the Diseases of Women under the charge of the Professor. Ample opportunity is afforded for Clinical instruction in Midwifery at the Glasgow Maternity Hospital, to which the Professor holds the appointment of Senior Obstetric Physician.

A course of lectures on the Diseases of Women is delivered in summer.

## XVII. OBSTETRICS AND GYNAECOLOGY—(MUIRHEAD CHAIR).

This Chair was founded by University Court Ordinance No. XXXIV., Glasgow No. 10, approved by His Majesty in

Council on 5th July, 1911. The Ordinance was made by the University Court in pursuance of the provisions of the Muirhead Trust Order, 1910, which was confirmed, under the Private Legislation Procedure (Scotland) Act 1899, by an Act of Parliament dated 26th July, 1910. The patronage is vested in eleven Curators, of whom seven are nominated by the University Court, two by the Managers of the Royal Infirmary, and two by the Trustees of the late Henry Muirhead, M.D., LL.D. By an agreement between the University Court and the Managers of the Royal Infirmary, the Professor is provided at that Infirmary with accommodation and facilities for teaching. The first appointment to the Chair was made in 1911.

*Professor.*

1911. JOHN M. MUNRO KERR, M.D.

*University Assistant*—A. Louise M'Ilroy, M.D., D.Sc.

The Lectures during the Winter Session embrace the theory and practice of Midwifery and Gynaecology. The Professor is Physician to the Glasgow Maternity and Women's Hospital, and Gynaecological Surgeon to the Royal Infirmary. Instruction is given in Clinical Midwifery in the Glasgow Maternity and Women's Hospital, and Clinical Gynaecology in the Wards of the Royal Infirmary, which are under the direction of the Muirhead Professor.

There is a special Course of Systematic and Clinical Gynaecology in the Summer Session.

## XVIII. INSANITY.

(PSYCHOLOGICAL MEDICINE.)

This Lectureship was instituted by the University in 1880. Great advantages are offered to students for the study of this subject, the Lecturer being Physician Superintendent to the Royal Asylum, Gartnavel, and Physician to the Department for nervous and mental disorders at the Dispensary of the Western Infirmary.

*Lecturers.*

1880. David Yellowlees, M.D., LL.D.

1905. LANDEL R. OSWALD, M.B., C.M.

A course of Lectures is given in the University at 12 noon on Wednesdays during the summer session, and Clinical Instruction at the Asylum, Gartnavel, at 10 A.M. on Saturdays.

*For the Mackintosh Mental Science Bursary see "Bursaries."*

# XIX. MACKINTOSH LECTURESHIP IN PSYCHOLOGICAL MEDICINE.

This Lectureship, originally connected with St. Mungo's College, Glasgow, was founded by Dr. Donald MacKintosh, of London, in memory of his brother, Dr. Alexander MacKintosh, for many years Physician-Superintendent of the Royal Lunatic Asylum, Gartnavel.

*Lecturer.*

1913. JAMES H. MACDONALD, M.B., CH.B.

The course of instruction in Psychological Medicine embraces

- (a) Systematic Lectures,
- (b) Clinical Lectures and Demonstrations,
- (c) Pathological Demonstrations.

The Systematic Course is given in the Medical School of the Royal Infirmary at 3 p.m. on Thursdays during the Summer Session, and embraces lectures on Normal and Morbid Psychology, and on Insanity in its Medico-legal Relations.

The clinical instruction is given at 10 A.M. on Saturdays, at Hawkhead Asylum, Crookston, where there are seven hundred and sixty patients under the care of the lecturer, who is Physician-superintendent. The course embraces lectures and demonstrations on the Signs and Symptoms of Disordered Mind; the Etiology, Symptomatology, Course, Prognosis and Treatment of the various forms of Insanity; demonstrations of macroscopic and microscopic specimens, illustrating the morbid changes in the brain in Insanity.

Text-books: *A Text Book of Psychiatry* (Bianchi-MacDonald); *Psychological Medicine* (Maurice Craig).

*For the MacKintosh Mental Science Bursary, see "Bursaries."*

## XX. OPHTHALMOLOGY.

This Lectureship was instituted by the University in 1828.

*Lecturers.*

1828. William M'Kenzie, M.D.

1868. George Rainy, M.D.

1869. Thomas Reid, M.D., LL.D. (From 1869 till 1900).

1911. A. MAITLAND RAMSAY, M.D.

A course of instruction in Ophthalmology is given during each session. In each term of the session Clinical Demonstrations are given on Mondays and Thursdays at 4 p.m. in the Ophthalmic Department of the Glasgow Royal Infirmary, 126 West Regent Street. Lectures are given during the second term of the winter session on Thursdays at 4 p.m., and in the summer term a short course of Lectures is given in the Anatomy Class Room at Gilmorehill on Tuesdays at 4 p.m. Students, both men and women, will be enrolled at the beginning of each term; they are required to attend at least twenty meetings of the class, including Clinical Demonstrations and Lectures.

Since 1895 Dr. Maitland Ramsay has been Lecturer in Ophthalmology to the women students of the University. From 1900 till 1911 there was no official lecturer to the men students.

## XXI. FEVERS.

The course of Clinical Instruction in Fevers must consist of at least ten meetings in a hospital for infectious diseases containing not less than fifty beds. Such instruction is given in the City of Glasgow Fever Hospitals, Belvidere and Ruchill. Each student must, before commencing attendance at the Hospital, obtain at the office of the Treasurer, Police Department, 285 George Street, an admission card—Fee, £1 1s.

## XXII. DISEASES OF THE EAR.

This Lectureship was instituted by the University Court in 1895.

*Lecturers.*

1895. THOMAS BARR, M.D.

1916. ALBERT A. GRAY, M.D.

Short courses on Diseases of the Ear are conducted in winter and summer. They are largely of a practical character, and arrangements are made so that each student may attend at

least ten meetings for practical instruction. At these meetings the students are taught how to examine and treat the ear, while illustrative cases are regularly demonstrated. In connection with each course a weekly lecture is delivered in the University, and illustrated by means of lantern slides, diagrams, specimens, and demonstrations of methods of examination and treatment. The practical work is carried on at the Aural department of the Western Infirmary by the Lecturer on days and hours to suit as far as possible the convenience of students. As it is not considered desirable that a complete course of systematic lectures be given on this subject, it is understood that a suitable book on Diseases of the Ear should be studied by the student while attending the practical course. It will be arranged that those who are desirous of pursuing the subject further may receive more advanced practical instruction in a second course.

Prizes are awarded to the most proficient students as tested by clinical examination.

*Text-book.*—*The Ear and its Diseases* (1910), by Albert A. Gray, M.D.

#### XXIII. DISEASES OF THE EAR. (ROYAL INFIRMARY.)

This Lectureship was instituted in 1913.

*Lecturer.*

1913. J. KERR LOVE, M.D.

A winter and a summer course are given. Each meeting is divided into a lecture and a practical demonstration. Specimens and lantern demonstrations are used, patients are examined by students, and the latter are expected to perform the minor operations of aural surgery. Students are invited to be present on the operating days in the Royal Infirmary to witness the major operations of aural surgery. The effects on speech of the loss of hearing are demonstrated, and the principles of the education of the deaf and dumb are explained. At the end of the Course a practical examination is held and a Lecturer's Prize is awarded. Guidance is given to students as to textbooks.

## XXIV. DISEASES OF THE THROAT AND NOSE.

This Lectureship was instituted by the University Court in 1895.

*Lecturer.*

1895. JAMES WALKER DOWNIE, M.B., F.R.F.P. and S.G.

The course of instruction on Diseases of the Throat and Nose is clinical in character, and is conducted in conformity with the University Court Ordinance No. 31, Section VIII., Sub-section 11 (3), according to which candidates for graduation in Medicine are required to attend a practical course of at least ten meetings on this subject. To permit of the necessary subdivision of the class for purposes of practical instruction there is a Winter and a Summer course, each having about the same number of meetings.

At the beginning of each session, the class meets as a whole at the University on Thursdays at 4 P.M. There the methods of examining the throat and nose, and the apparatus necessary for this purpose, are described and explained: the appearance of the parts in health and as altered by disease is described, as are also the means of treatment, etc.

The class is then divided into sections for practical instruction. These sectional meetings are held at the Western Infirmary (Throat and Nose Department)—one section on Tuesdays, another on Fridays, at 4 P.M. At these meetings each student is afforded every facility for examining the various patients for himself under the supervision of the Lecturer.

In the Lectures at the University fuller instruction than can be communicated in the presence of the patient regarding pathological conditions seen at the Infirmary is given, and these lectures are illustrated by casts and diagrams, ordinary stereoscopic and X-ray photographs and lantern slides, instruments, anatomical and pathological specimens, etc. While regular attendance on the practical instruction at the Infirmary is necessary to obtain a certificate, all members of the class are strongly recommended also to attend the meetings at the University with regularity.

The Asher Asher Memorial Gold Medal is awarded in connection with this lectureship. The examination, which is clinical in character, is held towards the close of the Winter Session, and students attending during that session, and those

who obtained First-class certificates in the class examination in the immediately preceding Summer Session, are eligible.

*Text-books.*—*Clinical Manual of Diseases of the Throat* (2nd Edition, 1909), by J. Walker Downie, M.B.; *Diseases of the Nose*, by E. S. Waggett, M.A., M.B.

## XXV. DISEASES OF THE NOSE AND THROAT.

(ROYAL INFIRMARY.)

This Lectureship was instituted in 1913.

*Lecturer.*

1913. JOHN MACINTYRE, M.B., C.M.

The course of instruction on Diseases of the Throat and Nose is clinical in character, and is conducted in conformity with the University Court Ordinance No. 31, Section 8, Sub-section 11 (3), according to which candidates for graduation in medicine are required to attend a practical course of at least ten meetings on this subject.

The class will meet in summer or winter, or both, as required for practical instruction, and the number of demonstrations will be in accordance with the above mentioned Ordinance. Days and hours will be arranged for each term.

The instruction given in the practical courses above referred to cannot be appreciated unless some special lectures or demonstrations or both are given to explain the principles involved in diagnosis, prognosis, and treatment. By way of preparation for the ordinary clinical work, extra lectures or demonstrations will be given upon the methods of examination, the anatomy, the physiology and the pathology of the affections of the upper respiratory tract. Further, the normal appearance of the different parts as seen in health will be described, and deviations from the normal described. In addition to instruction upon constitutional methods of treatment, local measures and instruments necessary for surgical procedures will be shown.

These demonstrations will be illustrated by means of diagrams, photographs (ordinary, stereoscopic, X-ray), anatomical, physiological and pathological specimens (macroscopic and microscopic), casts, magic lantern slides, etc.

Students are strongly recommended to attend these demonstrations in addition to the practical work of the class.

XXVI. THE M'CALL ANDERSON MEMORIAL LECTURESHIP  
IN DERMATOLOGY.*Lecturer.*

1909. JOHN WYLLIE NICOL, M.B., C.M.

The Glasgow Hospital for Diseases of the Skin, latterly situated in Elmbank Street, was founded in 1861, and ten years later wards for Skin Diseases were provided in the Western Infirmary. From its foundation till 1908 Professor Sir Thomas M'Call Anderson (till 1905 Dr. M'Call Anderson), in whose memory the Lectureship has been instituted, was connected with the Hospital as Physician.

In terms of the Glasgow Hospital for Skin Diseases Order, 1909, the Hospital as a separate institution was discontinued, and a transference effected of its work to the Western Infirmary, the Skin Disease Wards of which are now designated "The M'Call Anderson Memorial Ward" and "The A. B. Buchanan Memorial Ward." An endowment Fund for the Lectureship was provided by the Hospital. The Lecturer, Dr. Nicol, was for a number of years associated in the work of the Hospital with Sir Thomas M'Call Anderson.

The course of instruction on Diseases of the Skin is of a thoroughly practical character. Courses are held during the Winter and Summer Sessions.

## XXVII. DERMATOLOGY (ROYAL INFIRMARY).

This Lectureship was instituted in 1913.

*Lecturers.*

1913. Alexander Morton, M.A., M.D.

1914. GEORGE M'INTYRE, M.B., C.M.

The practical work is carried on in the Dispensary of the Royal Infirmary, where cases will be shown, and diagnostic points indicated. On days, and at an hour convenient for the students, lectures illustrated by casts, photographs, etc., will be given in explanation of the cases thus seen.

## XXVIII. VENEREAL DISEASES.

This Lectureship was instituted in 1912. The movement was initiated by the Managers of the Royal Infirmary who obtained from the Merchants' House for this purpose a grant from the Ewing and Buchanan Bequests. The University

Court make the appointment, and the Managers of the Royal Infirmary and also of the Lock Hospital undertake to supply facilities for giving practical instructions.

*Lecturers.*

1912. David Newman, M.D.

1914. DAVID WATSON, M.B., C.M.

Classes are held at the Royal Infirmary and Lock Hospital during both the Summer and Winter Sessions. The course is of essentially a practical nature, consisting of twenty bacteriological and clinical demonstrations.

XXIX.—ELECTRICAL DIAGNOSIS AND THERAPEUTICS.

Two Lectureships were instituted in this subject in 1917, one at the Royal Infirmary and the other at the Western Infirmary, the Merchants' House of Glasgow having offered to provide grants for the purpose from the Buchanan and Ewing Bequests.

*Lecturer at Royal Infirmary,*

James R. Riddell, F.R.F.P. and S.G.

*Lecturer at Western Infirmary,*

IV.—FACULTY OF LAW.

The Faculty of Law embraces the Chairs of Law and Conveyancing, and also the Chairs of Forensic Medicine and Political Economy. In this Faculty there are also Lectureships on Civil or Roman Law, Constitutional Law and History, Jurisprudence, Public International Law, International Private Law, Mercantile Law, and Evidence and Procedure.

For the information of students proposing to enter the legal profession, whether as Advocates or as Law Agents, it may be stated that by the regulations of the Faculty of Advocates every intrant to the Faculty is required to produce evidence of being duly qualified (1) in General Scholarship, and (2) in Law. In General Scholarship the possession of any one of certain University degrees, including the degree of M.A. from a Scottish University, is deemed a sufficient qualification. If the intrant does not hold a qualifying degree he is required to undergo an examination in certain specified branches of General Scholarship as to which information may be obtained on application to the Clerk of Intrants to the Faculty. On the expiration of a year after the intrant has been found qualified in

General Scholarship, his examination in Law may be proceeded with, subject to these conditions: (1) That he shall not during the year before such examination have engaged in any trade, business, or profession, either on his own account, or as assistant to or in the employment of another; and (2) that he shall produce evidence of attendance, such as is required for admission to examination for a Law degree, in a class of Scots Law and a class of Conveyancing, in a Scottish University, and evidence of the like attendance in a class of (a) Civil Law, (b) Philosophy of Law and International Law, Public or Private, (c) Constitutional Law and History in a Scottish University, or such attendance in another University or School of Law as may seem to the Dean and his Council to be equivalent thereto, and (d) Medical Jurisprudence, in a University, or in a School recognised as qualifying for University Degrees. On the production by the intrant of evidence of his having attended the necessary classes (which he may attend in any order he thinks fit), he is examined on (1) Civil Law, (2) Philosophy of Law and International Law, Public or Private, (3) Constitutional Law and History, (4) Medical Jurisprudence, (5) Scots Law, Civil and Criminal, including Procedure, (6) Conveyancing. Information as to the books prescribed may be obtained from the Clerk of Intrants. If, however, the intrant has obtained the degree of LL.B. from a Scottish University after examination in all the subjects above prescribed for examination in Law, and also produces evidence that he has passed an examination in Procedure, he is held qualified in General Scholarship and Law without examination or other evidence of qualification, subject to the conditions that during the year immediately before presenting his diploma to the Examiners, he shall not have been engaged in any trade, business, or profession, as above set forth, and that he shall have duly presented his petition for admission and appeared before the Examiners prior to the commencement of such year. If the intrant has obtained said degree of LL.B. after passing examinations in one or more of the said subjects he is exempt from examination in these subjects. He must pass in at least two of the subjects at one time. The regulations regarding the "Public Examination," which all intrants, whether graduates or not, must undergo, require that the intrant shall write a Thesis on a Title of the Pandects assigned to him by the Dean,

and shall defend it on its being impugned. The question as to the intrant's admission is then decided by the Faculty voting by ballot.

Admission to the profession of a Law Agent is regulated by the Law Agents Act, 1873, and by the Law Agents and Notaries Public Act, 1891, and relative Acts of Sederunt of the Court of Session, prescribing rules as to subjects of examination and certain conditions of admission. Information as to the subjects of examination may be obtained from the Clerk to the Examiners. The former Act requires in general that every applicant for admission must have served an apprenticeship of five years with a practising law-agent or with a sheriff-clerk in office at the passing of the Act, which apprenticeship, if entered upon after the passing of the Act, must be served under indenture, recorded and intimated as the Act requires. In certain cases, however, an apprenticeship for three years is allowed as sufficient, the excepted cases including that of a person holding a degree in Law or in Arts of a University in Great Britain or Ireland granted after examination.

The Act of Sederunt of 18th March, 1893, institutes two examinations in General Knowledge, and prescribes the subjects of these examinations and of the examination in Law. By the Act of Sederunt of 21st November, 1902, in any subject to which the certificates or passes apply a Higher or Lower Grade Leaving Certificate issued prior to 1st June, 1902, or a Leaving Certificate or an Intermediate Certificate issued subsequent to that date, or a Pass in either Higher or Lower Grade granted as a step towards a Leaving Certificate, exempts from the first examination in General Knowledge; and a Higher Grade Leaving Certificate issued prior to 1st June, 1902, or a Leaving Certificate issued subsequent to that date, so far as obtained by passing on the Higher Grade, or a Pass in the Higher Grade granted as a step towards a Leaving Certificate, exempts from the second examination. Higher or Lower Certificates of the Oxford and Cambridge Schools Examination Board afford similar exemptions to Higher or Lower Grade Leaving Certificates. Higher Standard Certificates in the Preliminary Examination for M.A. under Ordinance No. 11 exempt from both of these examinations, but an examination in Book-

keeping must be passed. A Lower Standard Certificate in the Preliminary Examination for M.A. under Ordinance No. 11 exempts from the first examination in General Knowledge in any subject to which that Certificate applies, and a Higher Standard Certificate exempts similarly from the second examination in General Knowledge. Certificates entitling to exemption from the first examination must be presented to the Clerk of the Board of Examiners of Law Agents before the commencement of apprenticeship. A candidate for admission as Law Agent is exempted from any examination in General Knowledge, including book-keeping, if (*inter alia*) he hold a Degree of any University in the United Kingdom granted after examination. By Act of Sederunt, 18th March, 1893, a candidate who holds the degree of LL.B. or B.L. of any Scottish University is exempted from any examination in Law, excepting only on Forms of Process, Civil and Criminal. But an Act of Sederunt of 23rd December, 1904, provides that a candidate who holds the Degree of LL.B. or B.L. of any Scottish University who has not passed in the Law of Scotland and Conveyancing, or either of them, for his Degree shall be required to pass a qualifying examination in the omitted subject or subjects to the satisfaction of the Examiners of Law Agents.

The Act of Sederunt dated 11th July, 1899, provides *inter alia*:—(1) The first examination in general knowledge shall be taken before the commencement of apprenticeship, and no person shall be admitted as apprentice under indenture to a Law Agent until he shall have passed the said first examination. (2) The second examination in general knowledge may be taken at any time after the candidate has passed the first examination. (3) A candidate who fails to pass the first or second examination may again offer himself for examination, and shall be re-examined in all the subjects, or such part thereof as the examiners may determine. It shall be in the power of the examiners to fix a time before which a candidate who has failed to pass any examination shall not present himself again for examination. (4) No candidate shall be examined in Law until he has passed the second examination in General Knowledge.

For Regulations as to Graduation in Law, see Index.

## LAW.

This Professorship is in the gift of the Crown. After being long in abeyance for want of revenue, it was revived by the College in 1712, and endowed by Queen Anne in the following year.

*Professors.*

1714. Wm. Forbes, Advocate.	1867. Robert Berry, M.A.,
1746. Wm. Cross, Advocate.	LL.D., Advocate.
1750. Hercules Lindsay, LL.D.	1887. Alex. Moody Stuart,
1761. John Millar, Advocate.	LL.D., Advocate.
1801. R. Davidson, Advocate.	1905. WILLIAM M. GLOAG,
1842. Allan A. Maconochie,	K.C., B.A., LL.D.,
Advocate.	Advocate.
1855. Geo. Skene, Advocate.	

SCOTS LAW.—The course extends to about 100 Lectures, embracing as full a course of Scots Law in each session as the time will permit, and including, so far as practicable, Lectures on the following subjects:—Sources and Development of the Law of Scotland; Law of Personal and Domestic relations—Marriage—Parent and Child—Succession—Trusts; Law of Property—Landownership—Patents—Copyright; the Law of Obligations and Contracts generally, their Constitution and Extinction, Legality and Illegality—the Law of Sale—Retention and Lien—Loan; Deposit—Pledge—Hiring, and the Law of Master and Servant—Agency—Workmen's Compensation Act—Partnership—Cautionary Obligations; Law of Landlord and Tenant; Law of Reparation—Personal injury—Defamation; Law of Diligence and Bankruptcy; Criminal Law, etc.

The text-book recommended to students is Erskine's *Principles of the Law of Scotland*, twenty-first edition.

The class meets five days a week—viz., every day except Monday, from 8 A.M. to 9 A.M. At intervals throughout the session the hour is devoted to the ordinary class examinations, which are conducted in writing.

Three Prizes are given by the University for proficiency in the class examinations; and the "Robert Ross Prize," being the free annual income of a sum of £500 bequeathed by the late Robert Ross, Esq., writer, Glasgow, is awarded in equal por-

tions to the head students of the year in this class and in the class of Conveyancing. Prizes are also given by the Faculty of Procurators, generally for distinction in a special written examination towards the end of the session.

*As to the Andrew Cunninghame Bursary and the Robert Macfarlane Bursary, see Index.*

---

### CONVEYANCING.

This Chair was instituted by ordinance of the Universities Commission (1858) of date 15th June, 1861, which was approved by Her Majesty Queen Victoria in Council on 11th October, 1861. The right of appointment to the Chair is vested in the Dean and Council of the Faculty of Procurators, Glasgow.

#### *Professors.*

1862. Anderson Kirkwood, LL.D.

1867. Sir James Robertson, LL.D.

1889. James Moir, LL.D.

1916. WILLIAM SHARP M'KECHNIE, LL.B., D.Phil.

The course extends to about 100 Lectures. As full a course of Conveyancing is given each session as the time permits. The subjects treated will be selected from the following list, viz.: (1) Essentials of Deeds; (2) Antiquities of Feudal Conveyancing; (3) Statutes, 1845 to 1874; (4) Casualties; (5) Deeds defining Personal Relationships; (6) Deeds affecting Moveable Rights; (7) Confirmation of Executors; (8) Deeds affecting Heritable Rights; (9) Completion of Titles to Heritable Estate; (10) Trust Deeds; (11) Sequestrations; (12) Searches and Examining Titles; (13) Government Duties; (14) Destinations; (15) Vesting; (16) Servitudes; (17) Prescription.

The class meets every weekday, except Monday, from 8 A.M. to 9 A.M.

The text-book recommended is Menzies' *Lectures on Conveyancing*.

Prizes are usually given for eminence in the class examinations during the session. Prizes are also as a rule given by the Faculty of Procurators for distinction in a written examination

held towards the end of the session on some of the subjects of the course; and the "Robert Ross Prize," being the free annual income of a sum of £500 bequeathed by the late Robert Ross, Esq., writer, Glasgow, is usually awarded in equal portions to the head students of the year in this class and in the class of Scots Law.

*As to the Andrew Cunninghame Bursary and the Robert Macfarlane Bursary, see Index.*

---

### FORENSIC MEDICINE.

This Professorship was created by the Crown in 1839.

#### *Professors.*

1839. Robert Cowan, M.D. | 1841. Harry Rainy, M.D.

1872. Pierce Adolphus Simpson, M.A. (Cantab.), M.D.

1898. JOHN GLAISTER, M.D., D.P.H. (Camb.), F.C.S., F.R.S.E.

This course, qualifying for graduation in Law (B.L. and LL.B.), will be delivered during the winter session at 9 A.M., after the Christmas vacation.

*Text-books.*—Dixon Mann, *Manual of Medical Jurisprudence*; Glaister, *Text-book of Forensic Medicine*, etc. (3rd edition, 1915). (See under Faculty of Medicine, p. 154.)

---

### POLITICAL ECONOMY.

(See under Faculty of Arts, p. 106.)

---

### CIVIL LAW.

The study of Civil Law in Glasgow is coeval with the establishment of the University. In the University Annals it is recorded that, in 1460, lectures on the Civil Law were delivered in the Chapter-House of the Friars Predicators by Master William of Levenax (Lennox). After being for a considerable period in abeyance, the study of the subject was revived in 1712.

In the middle of the eighteenth century the lectures were for the first time delivered in English; up to that time the prelections were in Latin. For some years during last century the lectures were once more in abeyance, but in session 1873-74 a class was again formed, and was taught in alternate sessions by the Professor of Law. In 1894 the University Court, carrying out a recommendation of the Universities Commission (1876), instituted a separate Lectureship in the subject.

*Lecturers.*

1895. J. M. Irvine, LL.B., Advocate.

1907. Hugh R. Buchanan, LL.B.

1909. William Dunbar, M.A. (Edin. & Oxon.), LL.B., Advocate.

1917. H. R. Buchanan, LL.B. (*temporarily*).

The course extends to at least eighty lectures. The opening lectures will deal with the Constitutional History of Rome and the history of the development of the law. This part is intended to serve as an introduction to the study of the special departments of the law. The remainder of the course will be devoted to a systematic exposition, in detail, of the various departments of the law, on the basis of Justinian's treatment in the *Institutes*. The class meets during the winter session, from 5.30 to 6.30 P.M. in the Faculty Hall, St. George's Place. Attendance at the class is required of all candidates for Degrees in Law (LL.B. and B.L.); it also qualifies for the Degree of M.A. if preceded by a course in Latin.

*Text-book.*—*Institutes of Justinian*; Ed., Moyle or Sandars. Reference is also frequently made to *Institutes of Gaius*; Ed., Poste, or Muirhead.

---

### CONSTITUTIONAL LAW AND HISTORY.

This Lectureship was instituted by the University in 1878, and the class was taught in alternate years during the summer session, the course extending to forty lectures. In 1894 the University Court, to meet the requirements of the Ordinances for Graduation in Law, placed the Lectureship upon a new footing. The course was extended to eighty lectures, and the class was made a Winter Class, meeting every year. In April, 1900, the extended course was recognised as a full course in

Arts, qualifying for graduation for the ordinary Degree of M.A., and also for the Degree of M.A. with Honours in History. Attendance is required of all candidates for the Degree of Bachelor of Laws (LL.B.); and the same attendance constitutes a qualifying course for the Degree of Bachelor of Law (B.L.).

*Lecturers.*

- 1878. Charles S. Dickson, M.A., Advocate.
- 1878. Alex. Ure, LL.B., Advocate.
- 1889. Robert T. Younger, LL.B., Advocate.
- 1894. William S. McKechnie, LL.B., D.Phil.
- 1916. (Vacant.)

I. ORDINARY CLASS.—The course will be partly historical and partly analytical. The historical lectures will trace in outline the development of the Constitution from the Anglo-Saxon migrations to the present reign. The analytical lectures will treat (1) of the safeguards of the rights of individuals, and (2) of the separate parts of the Constitution and the distribution of power in the State.

The text-books are Taswell-Langmead, *Constitutional History*; Dicey, *Law of the Constitution*; and Thomas, *Leading Cases in Constitutional Law*. In addition, students are recommended to refer to Anson, *Law and Custom of the Constitution*; McKechnie, *Magna Carta*; and Bagehot, *English Constitution*. During the continuance of the war the class will meet four days a week during the two winter terms at 4 P.M. in the History Lecture Room at the University.

II. HIGHER ORDINARY CLASS.—Students taking this subject for a second year will attend the Honours Class.

III. HONOURS CLASS.—(See under Faculty of Arts, p. 119.)

---

### GENERAL OR COMPARATIVE JURISPRUDENCE.

This Lectureship was instituted by the University in 1893, under the title Philosophy of Law. The subject was at an early date treated as an integral part of the course of Moral Philosophy, under the name of Natural Jurisprudence. From 1878 it was treated by the Lecturer on Public Law as introductory to that subject.

*Lecturers.*

- 1893. William Galbraith Miller, LL.B.
- 1904. James A. McCallam, LL.B.
- 1913. A. A. MITCHELL, LL.B.

The lectures are mainly devoted to the analysis of fundamental legal conceptions and legal classification and the development of law and legal conceptions. Written exercises may be prescribed. The Guthrie Memorial Prize is awarded for distinction in the work of the class.

The class meets in the Faculty Hall, St. George's Place, at 4.30 P.M., on two, or three, days a week, as may be arranged, during the winter session.

Students are recommended not to take the class at the beginning of their law course.

*Text-books.*—Holland, *Jurisprudence*; Maine, *Ancient Law* (the edition with Sir F. Pollock's notes, which are also published separately, is recommended).

---

### THE LAW OF NATIONS, OR PUBLIC INTERNATIONAL LAW.

In 1878 the University instituted a Lectureship on Public Law. In 1894 the University Court, to meet the requirements of the ordinances for graduation in Law, created separate courses for International Private Law and for Jurisprudence.

#### *Lecturers.*

1878. William Galbraith Miller, LL.B.

1904. A. H. CHARTERIS, LL.B.

The course will deal with the relations of States in peace, and in greater detail with their relations in war and neutrality. Written exercises will be prescribed. Students are expected to be acquainted with the elements of the Civil Law, and to have a general acquaintance with Modern European History.

*Text-books.*—Hall, *International Law* (5th ed.), or F. E. Smith's *International Law* (4th ed. by J. Wylie), and the texts of the Hague Conventions and of the Declaration of London. The latter are given in extract in Smith's *International Law*, 4th ed., and in full in Whittuck's *International Documents*, and in Pearce Higgins' *The Hague Conferences and other International Documents*. The cases referred to in the lectures should be studied in the collections edited by Pitt Cobbett or Scott or Bentwich or Evans.

The class will meet in the Faculty Hall, St. George's Place, at 8.45 A.M. during the winter session.

---

### INTERNATIONAL PRIVATE LAW.

From 1878 this subject was treated as part of the course of Public Law. In 1894 the University Court, to meet the requirements of the ordinances for graduation in Law, instituted a Lectureship on International Private Law.

#### *Lecturers.*

1894. William Galbraith Miller, LL.B.

1904. A. H. CHARTERIS, LL.B.

This course is given in the summer session. The lectures discuss the principal doctrines as developed in the decisions of the British Courts compared with the results of Continental Jurisprudence. The subjects comprise Historical Outline; Principles of Jurisdiction; Nationality and Domicil; and in different sessions some of the following in detail: (1) Marriage, Divorce, Guardianship, and Family Law; (2) Contract, Delict, and Mercantile Law, including Bankruptcy; (3) Succession and Trust Law, Conveyancing and Heritable Rights; (4) Copyright, Trademarks, etc.; (5) Procedure and Evidence; (6) Criminal Law and Extradition; the other subjects being sketched in outline. Written exercises will be prescribed.

Students are expected to be familiar with the leading doctrines of the Civil Law and of Scots Law. The class meets five days a week at 8.45 A.M. in the Faculty Hall, St. George's Place.

*Text-book.*—Rattigan, *Private International Law*. Students are expected to study the Statutes referred to, and certain leading cases prescribed, of which useful collections will be found in Nelson's *Private International Law*, Beale's *Cases on the Conflict of Laws*, and Lorenzen's *Cases on Conflict of Laws*. Dicey's *Conflict of Laws* (2nd ed.), Westlake's *Private International Law* (5th ed.), and Duncan & Dykes' *Principles of Civil Jurisdiction* (1912), will be found useful for reference.

The Guthrie Memorial Prize is awarded for distinction in the work of the class.

### MERCANTILE LAW.

This Lectureship was instituted by the University in 1894.

#### *Lecturers.*

1894. James Mackenzie, Member of the Faculty of Procurators, Glasgow.

1900. William Shaw, Member of the Faculty of Procurators, Glasgow.

1907. THOMAS G. WRIGHT, LL.B., Member of the Faculty of Procurators, Glasgow.

This course extends to eighty lectures, and deals with the Constitution, Transmission and Extinction of Commercial Rights, always including the Law of Contract, Agency, Securities, Bills of Exchange, Diligence, and Bankruptcy. In the latter part of the session several of the more special branches of Commercial Law are discussed, such as Partnership, Companies, Banking, Patents and Trade Marks, Carriage, and Insurance. Attendance on the whole course may be reckoned as qualifying for (1) the Degree of LL.B., subject to the conditions of Ordinance No. 39, and (2) the Degree of B.L., under the University Court Ordinance No. XXXVII. The majority of the subjects dealt with are suitable for the requirements of students intending to follow the profession of Accountants or Bankers. The class meets at 5.30 p.m. in the Accountants' Hall, 218 St. Vincent Street.

*Text-books.*—Bell's *Principles of the Law of Scotland*. Students who have not already attended Scots Law should also refer to Erskine's *Principles of the Law of Scotland*.

Prizes are awarded for eminence in the Class Examinations. The "Sheriff Balfour" prize is also awarded for distinction in the work of the class.

---

### EVIDENCE AND PROCEDURE.

This Lectureship was instituted by the University in 1905.

*Lecturer*—ROBERT LAMOND, LL.B., Member of the Faculty of Procurators, Glasgow.

The course of forty lectures will describe the principles of the Law of Evidence and the relevancy and kinds of evidence.

It will also include a description of the various Courts, the nature of their civil and criminal jurisdiction, the actions and proceedings competent in each and the Procedure followed.

The attendance on forty lectures, constituting a half course, may, subject to the conditions laid down in Ordinance No. 39 and University Court Ordinance No. XXXVII., be reckoned as qualifying for the Degrees of LL.B. and B.L.

The lectures are delivered on four or five days of the week at 8.45 A.M. during the Summer Session in the Faculty Hall, St. George's Place, Glasgow.

*Text-books.*—Maclaren, *Court of Session Practice*; Lewis, *Sheriff Court Practice*; Macdonald, *Criminal Law of Scotland*; *The Parliament House Book*, Parts A and B; Dickson on *Evidence*. Reference will also be made to Statutes and leading cases bearing on the subjects dealt with.

## FACULTY OF THEOLOGY.

The Faculty of Theology embraces the four classes of Divinity, Hebrew and Semitic Languages, Ecclesiastical History, and Divinity and Biblical Criticism. Any matriculated student may enrol in one or more of these classes separately. Candidates for the B.D. Degree must take the complete course prescribed by the regulations.

The following conspectus shows the order in which the classes should generally be taken :

### FIRST YEAR.

10 a.m.,	daily, -	-	-	Junior Hebrew.
11 a.m.,	daily, -	-	-	Junior Divinity.
12 noon,	daily, -	-	-	Junior Church History.

### SECOND YEAR.

9 a.m.,	two days weekly, -	-	-	Senior Hebrew.
10 a.m.,	daily, -	-	-	Junior Biblical Criticism.
11 a.m.,	daily, -	-	-	Senior Hebrew.
12 noon,	daily, -	-	-	Senior Divinity.

### THIRD YEAR.

9 a.m.,	Tues., Wed., Thur., -	-	-	Senior Biblical Criticism.
10 a.m.,	Mon., Fri., -	-	-	Senior Biblical Criticism.
11 a.m.,	daily, -	-	-	Senior Church History.
12 noon,	daily, -	-	-	Senior Divinity.

Provision is made for the study of *Honours Hebrew* or *Aramaic* by students of the third year.

The following regulations are applicable to students preparing for the ministry of the Church of Scotland. Under the Act of General Assembly, 1883, consolidating the Acts presently in force in regard to the study of Divinity, all candidates for the ministry are required to attend at the Divinity Classes either three full and regular sessions, or two full and regular sessions and three partial sessions; and to give at least two full sessions of regular attendance on the classes of Church History, Hebrew, and Biblical Criticism.

Each student, in order to be enrolled *for the first year* of his attendance, must present to the Professor of Divinity, *first*, a certificate from the Presbytery within the bounds of which he usually resides, and by which he has been examined on his knowledge of the Holy Scriptures according to the authorized version, and of the Catechetical Standards of the Church; *secondly*, a certificate signed by the Convener or Vice-Convener of the Examining Board appointed by the General Assembly to conduct the examination of students previous to their entering the Divinity Hall.<sup>1</sup> In order to be admitted to this examination he must, in accordance with the Act of Assembly, 1896, produce, in addition to the certificate from the Presbytery recommending him, either (a) the diploma of a Master of Arts of a Scottish University, or the diploma of a Bachelor of Arts after an undergraduate course at any British or Irish University, or at any Colonial University at which the course is equivalent to that of a Scottish University, and which shall be approved by the General Assembly on a report from the Committee on the admission of ministers and the status of students of Divinity, or evidence that he has passed the examinations for, and is entitled to receive, such diploma of Master or

<sup>1</sup> The following are the subjects of examination for October, 1918: LATIN—Cicero, *De Senectute*; Virgil, *Æneid* II.; Prose Composition and translation of unseen passages. GREEK—Xenophon, *Memorabilia* I.; S. Mark's Gospel; translation of unseen passages and prose composition. HEBREW—The Grammar—Davidson's *Hebrew Grammar*, Sections 1–31. Genesis, Chapters I. and II., with grammatical questions limited to the sections in the Grammar prescribed. MORAL PHILOSOPHY—Mackenzie's *Manual of Ethics*, 4th ed., pp. 1–273. SCRIPTURE KNOWLEDGE—(1) Knowledge of English Bible—the following books specially prescribed: I. and II. Kings; S. Luke's Gospel; 2nd Ep. to Corinthians. (2) Shorter Catechism. The examination at Glasgow will take place at the University, 9th and 10th October, 1918, at 10 a.m. each day.

For further information and for forms of application apply to the Rev. John Smith, D.D., The Manse, Partick, or to the Rev. W. S. Brownlee, B.D., Clydebank.

Bachelor of Arts; or (b) evidence that he has passed the Preliminary Examination required of those proceeding to the Degree of Master of Arts in a Scottish University, or such examination as the University authorities recognize as equivalent thereto, and that he has attended some one of the courses required<sup>1</sup> for that degree, and has not only attended the classes of the course, but has duly performed the work of each of them. Students who produce certificates of having passed in any subject with a view to the degree of M.A. at a Scottish University will be exempted from examination in that subject. All students—graduates as well as non-graduates—will be examined in Scripture Knowledge and New Testament Greek, and those whose certificates in their progress to a degree do not cover Greek, Latin, Moral Philosophy, and Hebrew will, in addition, be examined in any or all of those subjects not included.

Under the provisions of the Act of Assembly, 1916, students who have passed all their examinations for the Degree of M.A., and who fail at the Entrance Examination in October in not more than two of the following subjects, viz., Latin, Greek, Moral Philosophy, and Hebrew, will have an opportunity of being examined in the following April, at the time of the Exit Examination, in the subject or subjects in which they have failed. In the event of failure to pass in Greek, students are strongly recommended to attend a class in Greek during the session.

Students who began their Arts course before 1896 are requested to communicate with the Rev. Dr. Smith, Partick.

The student, in order to his enrolment *for each subsequent session* of his course, is required to present to the Professor of Divinity (a) a certificate from the Presbytery within whose bounds he chiefly resides, of his having been examined by them on the progress made by him in his studies, and of their satisfaction with the same, as well as (b) a certificate from the minister of his parish, or, during a vacancy in the parish, from the moderator of the kirk-session, bearing that he is of good character, and has been engaged in some practical Church work during the preceding year. (Deliverances of Assembly, 1894 and 1906.)

<sup>1</sup> Any student who has gone through a curriculum in Arts, but who has not graduated, may on application obtain, at the end of his course, a certificate to that effect from the Registrar on production of his Preliminary Examination Certificate and the necessary Class-tickets duly signed.

At the close of each session every student is required to take with him to the Presbytery certificates from the several Professors, under whom he has studied, of his good conduct and proficiency.

**EXIT EXAMINATION.**—Candidates for licence who have finished a regular course of study in Theology shall be examined as soon as it can conveniently be done after the close of the Divinity session by the Examining Board. "The following shall be the heads of subjects of examination :—(i.) Apologetics, including Natural Theology ; (ii.) Church History ; (iii.) Old Testament Introduction and Exegesis ; (iv.) New Testament Introduction and Exegesis ; (v.) Christian Doctrine ; (vi.) Scripture Knowledge." "Students who have passed for the Degree of B.D., and who satisfy the Committee that they have done so, shall be exempted from examination in the subjects covered by the Degree of B.D." The Exit Examination for 1919 will be held at the University on Tuesday, 15th, and Wednesday, 16th April, at 10 A.M. each day.

The subjects of examination will be

- I. *Apologetics.* Flint's *Theism*.
- II. *Church History.*—1. To A.D. 325. 2. Scottish Church History—A.D. 1700--1843.
- III. *Old Testament Introduction and Exegesis.*—1. Isaiah xl.-xlv. 2. Psalms c.-cvi.
- IV. *New Testament Introduction and Exegesis.*—1. Epistle to Colossians. 2. Greek New Testament *ad apert*.
- V. *Christian Doctrine.*—1. Doctrine of the Atonement. 2. Theology of Epistles of S. John. 3. Confession of Faith (historical origin and contents).
- VI. *Scripture Knowledge.*—1. General Knowledge of the English Bible ; special attention to be paid to the following books : Minor Prophets ; S. Matthew's Gospel ; Acts of the Apostles and Epistle of S. James. 2. Shorter Catechism.

Those who have passed for the degree of B.D. will be examined in IV. 2, V. 3, and VI. only.

The Convener of the Board is the Rev. John Smith, D.D., The Manse, Partick.

**PUBLIC READING AND SPEAKING.**—By Act of Assembly 1883, vii., students are required to study the art of public reading and speaking under some competent teacher approved by the Faculty of Theology,<sup>1</sup> during at least one hour a week in each of two sessions, the attendance extending in every case over at least sixteen weeks of the session, and to produce, before being taken on trials, due evidence of such attendance.

**PASTORAL THEOLOGY.**—By appointment of the General Assembly, the Home Mission Committee provides an annual course of lectures on Pastoral Theology, attended usually by second-year and third-year students.

By Act IX. of Assembly, 1895, it is enacted—"that every student before being taken on trials for licence shall produce evidence of having regularly attended two courses of the Pastoral Lectures provided by the Home Mission Committee."

**PRESCRIBED DISCOURSES.**—Each student is required during his curriculum to deliver *six* discourses—viz., an **ESSAY** on some head in Biblical Theology, a **HOMILY** in English, a **CRITICAL EXERCISE** on some portion of the original text of the Old Testament, an **EXERCISE** and **ADDITION** on some portion of the original text of the New Testament, a **LECTURE** on some portion of Scripture, and a **POPULAR SERMON**, with such other exercises as the Professors may think fit to prescribe. No student can be taken on trials for licence by any Presbytery until he has produced, along with class certificates from the Professors of Church History, Hebrew, and Biblical Criticism, a certificate from the Professor of Divinity that the discourses so prescribed have been sustained.

The Faculty of Theology have adopted the following regulations as to the delivery of these discourses:—(1) That the Homily shall be given in to the Professor of Church History at such time as he shall appoint in the *first* session of the student's course; (2) that the Essay on some head in Biblical Theology shall be given in to the Professor of Divinity, and the Lecture

<sup>1</sup> For the purposes of the Act of Assembly, and to qualify for the competition for the Downhill Prizes, the following teachers are recognised:—Mr. J. Bruce Alston, Albany Chambers, Charing Cross; Mr. Thomas Harrower, Christian Institute, 70 Bothwell Street; Mr. R. E. Jeffrey, 206 Sauchiehall Street; Mr. Joseph Moore, 15 Blythswood Drive; and Mr. Percival Steeds, B.A. (Oxon.), Glasgow Athenæum. The minimum fee to be charged by each teacher is one guinea when the students are taught in classes. The name of any teacher having no students for two successive years will be dropped from the list and not reinstated without a special application to the Senate.

to the Professor of Biblical Criticism, in the *second* year of the student's course, at such times as shall be appointed by these Professors respectively; and (3) that the Popular Sermon shall be given in to the Professor of Divinity, the Hebrew Critical Exercise to the Professor of Hebrew and Semitic Languages, and the Exercise and Addition to the Professor of Biblical Criticism, in the *third* session of the course, at such times as shall be appointed by the several Professors. The subjects of the Discourses will be prescribed by the Professors to whom they are severally to be given in.

"Every student shall deliver his first discourse some time during his second session at the latest, and the remainder of his discourses at such periods as may enable him to deliver the whole of them before the end of January of the last session of his course" (*Act of Assembly*, 1883, VII., chap. 1, section 9).

CHURCH LAW.—A short course of lectures in Church Law is given every second session by a lecturer invited to do so by the Faculty. These lectures have hitherto been given by William George Black, Esq., LL.D.

DIVINITY HALL LIBRARY.—See p. 232.

### DIVINITY.

This Professorship was founded in 1640, and the foundation ratified in Parliament. The Professor is appointed by the University Court.

#### *Professors.*

1640-50. David Dickson.	1761. Robert Trail, D.D.
1642-61. Robert Baillie.	1775. James Baillie, D.D.
1653. John Young.	1778. William Wight, D.D.
1669. Gilbert Burnet, D.D.	1782. Robert Findlay, D.D.
1674. David Liddell.	1814. Stevenson Macgill, D.D.
1682. Alexander Ross, D.D.	1840. Alexander Hill, D.D.
1688. James Wemyss, D.D.	1862. John Caird, D.D.
1692. James Wodrow.	1873. William Purdie Dickson, D.D., LL.D.
1708. John Simson.	1895. William Hastie, D.D.
1740. Michael Potter.	
1744. William Leechman, D.D.	
1903. HENRY MARTYN BECKWITH REID, D.D.	

The course extends over at least three full and regular sessions. The classes meet in the Divinity Hall on five days of the week, the Junior Class at 11 A.M., the Senior Class (for all but first-year men) at 12 noon.

I. JUNIOR CLASS, 11 A.M. The subjects dealt with are as follows :

THEOLOGICAL ENCYCLOPAEDIA ; PHILOSOPHY OF RELIGION (including Psychology of Religion, History of Religion, and Natural Theology) ; CHRISTIAN APOLOGETICS (including History of Christian Apologetics, and Special Apologetics).

Books which may be used for this class : Cave's *Introduction to Theology and its Literature*, or Davies' *Theological Encyclopaedia* ; Galloway's *Philosophy of Religion* ; Leuba's *Psychological Study of Religion* ; Menzies' *History of Religion*, 4th ed. ; Flint's *Theism and Antitheistic Theories* ; Garvie's *Handbook of Christian Apologetics*, or Bruce's *Apologetics*.

Some lectures may be given on BIBLICAL THEOLOGY, for which the student is recommended to read Schultz's *Old Testament Theology*, and Stevens' *Theology of the New Testament*.

A short course may also be delivered on the FUNDAMENTAL DOCTRINES OF THE CHRISTIAN FAITH, for which the student may read Moule's *Outlines of Christian Doctrine* and Seeberg's *Fundamental Truths of the Christian Religion*.

II. SENIOR CLASS, 12 noon. This class is specially devoted to SYSTEMATIC THEOLOGY (Dogmatics and Ethics). The subjects which will be dealt with in session 1918-19 are as follows :

Christian Dogmatics : Doctrine of Revelation and Doctrine of God and the Holy Trinity. Theology of John Caird.

Christian Ethics : Part II. Practical Ethics (Moral Theology).

Books which may be used in the Senior Class : Sanday, *Inspiration* : A. S. Peake, *The Bible* : Adeney, *Christian Conception of God* : Illingworth, *The Holy Trinity* : Caird's Works.

DISCOURSES.—The discourses or exercises required by the Church of Scotland are six in number. Of these, two are taken in the Senior Class of Divinity, viz., an English essay on some subject in Biblical Theology (by second-year students) ; and a

popular sermon (by third-year students). These must be given in *on or before Dec. 1.*

BOOK FUND.—This Fund is available annually for the purchase of theological books by students of Divinity. Grants in aid are made to each student at the discretion of the Professor of Divinity. The annual income is derived from a bequest by the late Mrs. John Caird, and from other sources. Students must in every case purchase books indispensable to the work of the ministry.

### HEBREW AND SEMITIC LANGUAGES.

This Professorship was founded by Queen Anne, 1709, under the title Oriental Languages. It is now designated Hebrew and Semitic Languages, in accordance with Ordinance No. 31 of the Universities Commission (1889) of date 5th June, 1893. The Professor is appointed by the University Court. He is a member of the Faculty of Theology, and also, since 1893, of the Faculty of Arts.

#### *Professors.*

1709. Charles Morthland.	1820. Gavin Gibb, D.D.
1745. Alexander Dunlop, M.A.	1831. William Fleming, D.D.
1751. William Rouet.	1839. George Gray, D.D.
1753. George Muirhead.	1850. Duncan H. Weir, D.D.
1755. John Anderson, M.A.	1877. James Robertson, D.D.
1757. James Buchanan, M.A.	1907. WILLIAM B. STEVENSON,
1761. Robert Trail, D.D.	D.Litt.
1761. Patrick Cumin, LL.D.	

Hebrew and Arabic are included among the departments of study for graduation in Arts, and "Semitic Language and Literature" among those for graduation with Honours. Intensive courses will be provided by a combination of ordinary and honours classes. On this subject students should consult the Professor. Both Hebrew and Arabic are two-term subjects (*i.e.* attendance in the classes during the Theological session will qualify for graduation in Arts). But classes continue to meet in the summer term (see pp. 190-91).

The existing regulations of the Church of Scotland require all regular students of Divinity to give attendance on Hebrew for two sessions.

PROSPECTIVE DIVINITY STUDENTS are strongly recommended to prepare for the Junior Class by attendance on an Elementary Hebrew Class during their last session in Arts.<sup>1</sup>

The following are the arrangements for session 1918-19 :—

I.—*Junior Hebrew Class*, meeting five days in the week at 10 A.M. The course includes (1) Davidson's *Hebrew Grammar*, with the Exercises; (2) Readings from the easier books of Scripture; (3) Lectures on Old Testament Literature or Hebrew Archaeology.

Students presenting themselves for the Arts Preliminary Examination will be expected to know as much as is implied in the work of the Junior Hebrew Class, and will be examined in grammar, and in translation both from Hebrew into English and from English into Hebrew.

II.—*Senior Hebrew Class*, meeting five days in the week at 11 A.M., and two days at 9 A.M. The Course includes (1) Reading of Old Testament books, including some portions of those prescribed for the degrees of M.A. and B.D.; (2) Exercises in unpointed texts and translations into Hebrew; (3) Revisal and extended study of grammar, including syntax and accents; (4) Lectures on History and Introduction.

The Senior Hebrew is appointed as the qualifying class for graduation in Arts. During the summer term a continuation class, especially intended for B.D. students, will meet five days weekly, at 9 A.M., till the close of the Arts degree examinations in June.

III.—*Honours Hebrew Class*, meeting in winter three days weekly at 9 A.M. or some other convenient hour. The course includes lectures on the History and Literature of the Hebrews; reading of some of the books prescribed for the degree examinations; and written exercises in composition. During the summer term the Honours Class will meet five times weekly down to the close of the Arts degree examinations in June (qualifying half course). In it special attention will be given to post-Biblical Hebrew.

<sup>1</sup> Those who join the Junior Class are expected to have done already an equivalent of Sections 1-30 in Davidson's *Grammar*. If a sufficient number of students present themselves an elementary class is formed, meeting four or five times weekly during the first term only.

IV.—A class for *Syriac*, to meet two days in the week at 9 A.M., will be formed, if students offer. In the summer term a class, meeting four times a week, for the study of *advanced Syriac* or of *Comparative Semitic Philology* and *Aramaic*, including the Targums, Old Testament Aramaic, and the Aramaic of the Egyptian papyri, may also be formed.

V.—For *Arabic Classes* see below.

*Scholarships and Bursaries*—See note on p. 193.

### ARABIC LANGUAGE AND LITERATURE.

This Lectureship was instituted by the University Court in 1902.

*Lecturer*—THOMAS H. WEIR, B.D., M.R.A.S.

I.—An Elementary Class meets three days a week in winter and daily in summer at any hour that may be found suitable. The fee for this class is two guineas, but students who have obtained a class ticket for a graduating course in Hebrew attend free (see Inclusive Fees). If desired, a class will be formed for Persian.

II. *Ordinary Class*.—This class qualifies for graduation in Arts, and may be taken either in one full course or in two half courses. The subjects of study comprise the Korān, classical and modern prose and poetry, and the history of the Arabs and their literature. For text-books see p. 266.

III.—An *Intermediate Class* will be formed for students who take a double course in Arabic and are examined on a higher standard for the Ordinary Degree. See p. 266.

IV. *Honours Class*.—The subjects of study will be the Korān with commentary, the *Makamat* of Nasif al Yaziji, selections from the early poets and later prose-writers. For texts (some of which are in the Class Library) see p. 277.

V.—*Modern Arabic*.—Instruction will also be given, if required, in modern and colloquial Arabic. Text-book: Vollers, *Modern Egyptian Dialect of Arabic*.

VI. Arrangements will also be made so that those who desire to do so may attend lectures on the history and religion of Arabia, a knowledge of Arabic not being required.

NOTE.—*Semitic Languages are prescribed in the examinations for the Black Theological Fellowship, the John Clark (Mile-end) Scholarship, and the Lanfine Bursary.*

### ECCLESIASTICAL HISTORY.

The Professorship of Ecclesiastical History was founded by George I. (out of the revenues of the Archbishopric of Glasgow), in the year 1716, but no appointment was made to the Chair till the year 1720.<sup>1</sup> The Professor is appointed by the Crown.

#### *Professors.*

1721. William Anderson.	1841. Jas. Seaton Reid, D.D.
1752. William Ronet.	1851. Thos. T. Jackson, D.D.
1762. William Wight, D.D.	1874. William Lee, D.D.
1778. Hugh M'Leod, D.D.	1886. Robert Herbert Story,
1809. William M'Turk, D.D.	D.D., LL.D.
1898. JAMES COOPER, D.D., Hon. Litt.D., Trin. Coll., Dublin, D.C.L., Durham.	

The course extends over two sessions, and embraces two series of lectures as well as written examinations and essays. The Junior and Senior Classes meet at separate hours, the Junior from 12 noon to 1 P.M., the Senior from 11 A.M. to 12 noon.

The subjects treated in the Lectures during the two sessions will be :

I. JUNIOR CLASS.—The History of the Church Catholic from the Day of Pentecost to the close of the Fourth General Council. Books recommended—Mosheim, *Institutes of Ecclesiastical History* (edited by Stubbs); the *Church Histories* of Moeller, Kurtz, Neander, Gieseler, Schaff, and Canon

<sup>1</sup> Ecclesiastical History had been previously taught as well as was practicable, and there are notices of its having been dealt with by Melville, Baillie, and others. The blind scholar, William Jameson, who had been appointed lecturer in "Civil and Ecclesiastical History" in 1692, devoted much attention to Church History, in which he was specially learned; and it has been suggested that the delay in appointing a professor was due to the wish not to disturb him in his old age. He died in 1720.

Robertson; Duchesne, *The Early History of the Church*; Harnack, *History of Dogma and Expansion of Christianity in the First Three Centuries* (trans. Moffatt); Briggs, *History of the Study of Theology*; Eusebius, *Ecclesiastical History* (ed. Bright, Oxford, 1881); *The Teaching of the Twelve*; *The Apostolic Fathers*; The Library of Ante-Nicene Fathers; Ramsay, *The Church in the Roman Empire before A.D. 170*, *S. Paul the Traveller and Roman Citizen*, and *The Letters to the Seven Churches*; Pullan, *History of Early Christianity*; Wordsworth, *The Ministry of Grace*; Puller, *The Primitive Saints and the See of Rome*; Rainy, *The Ancient Catholic Church*; Kelly, *A History of the Church of Christ*; Bright, *Waymarks of Church History* and *The Age of the Fathers*; Hefele, *History of the Church Councils*; Percival, *The Seven Oecumenical Councils* (the first Four); Newman, *Arians of the Fourth Century*; Gibbon, *The Decline and Fall of the Roman Empire* (ed. Bury); Hodgkin, *Italy and her Invaders*, vols. I. and II. P. Allard, *Histoire de persécutions* and *Le Christianisme et l'empire romain de Néron à Théodose*.

II. SENIOR CLASS.—(1) The History of the Church of Scotland; (2) The History of the Church of England; (3) Some Important Epochs in the History of the Church. (*N.B.*—The special subject taken up—on Fridays—in Session 1918-19 will be the Ecclesiastical History of Europe from the death of Louis XIV. (1715) to the Accession of George III. (1760).

Books recommended—Grub, Cunningham, Stephen, and Macewan on the Ecclesiastical History of Scotland; Skene, *Celtic Scotland*; Dowden, *The Celtic Church in Scotland* and *The Mediaeval Church in Scotland*; Macgregor, *Saint Columba*; Adamnan, *Saint Columba* (tr. Huyshe); The Chronicles of the Picts and Scots; the series "The Historians of Scotland"; Rait, *The Making of Scotland*; W. M. Mackenzie, *Outline of Scottish History*; *Statuta Ecclesiae Scoticanæ*; *Booke of the Universal Kirk of Scotland* (4 vol. edition); John Knox, *History of the Reformation in Scotland* (ed. Laing); Spottiswood; Calderwood; Baillie; Cook; M'Crie, *Knox*; William Robertson, *History of Scotland*; Hume Brown, *History of Scotland* and *John Knox*; Diary of Sir Archibald Johnston of

Wariston; Macmillan, *The Aberdeen Doctors*; Peterkin, *Records of the Kirk of Scotland from 1638*; Acts of the Scots Parliament; Andrew Lang, *History of Scotland*; W. L. Mathieson, *Politics and Religion in Scotland, 1550-1695*; Acts of the General Assembly; Cooper, *Confessions of Faith and Formulas*; Haddan and Stubbs, *Councils of Great Britain and Ireland*; Wilkins, *Concilia Magnae Britanniae*; Bede, *Ecclesiastical History of England*; Fuller, *Church History of Britain*; Walton's *Lives*; Collier, *Ecclesiastical History of Great Britain*; J. R. Stoughton, *Religion in England*; Stubbs, *Constitutional History of England*; Hume, Lingard, Macaulay, Froude, and S. R. Gardiner, *Histories of England*; Wakeman, *History of the Church of England*; A History of the English Church, edited by Stephens and Hunt; Dixon, *History of the Church of England*; Carlyle, *Cromwell*; Clarendon; Burnet, *History of the Reformation*; Abbey and Overton, *English Church in the Eighteenth Century*; Wickham Legg, *English Church History from the Restoration to the Tractarian Movement*.

A written examination of the Senior Class (session 1918-1919) will be held not later than 30th Nov., 1918, on Venerable Bede's *Ecclesiastical History of England* and S. Adamnan's *Saint Columba* (which may be read in translations), for which marks up to 100 may be obtained. The marks obtained both for the Essay (up to 100, according to merit) and for this examination will count for the Prize List.

The subjects for Essays to be given in not later than 1st January, 1919, are: (1) Arianism in England and Scotland, 1660-1760; (2) Bishop Butler; (3) Massillon as a Preacher; (4) Frederick the Great and Voltaire; (5) The Ecclesiastical Writings of Swift; (6) Early Methodism—till 1760; and (7) The Ecclesiastical History and Ecclesiology of any Scottish parish in which the student has resided.

Subjects for Essays to be given in not later than 1st January, 1920, are: (1) Bishop Horsley and the Unitarian Controversy; (2) The Evangelical Revival in the Church of England; (3) The Scottish Paraphrases and their Authors; (4) Moravian and Danish Missions; (5) Life and Letters of Pope Clement XIV. (Ganganelli); (6) Beginnings of German Rationalism; (7) The Ecclesiastical History and

Ecclesiology of any Scottish parish in which the student has resided.

*N.B.*—Students who are Masters of Arts should make it a point of duty to take the higher degree of B.D. ; and they are recommended to write their essay on one of the first six subjects above mentioned. No. 7 is specially for students who are not graduates. The Mackenzie Prize for Church History should be noted. Particulars will be supplied by Messrs. J. & J. Ogilvie, solicitors, 13 Albert Square, Dundee.

---

### *DIVINITY AND BIBLICAL CRITICISM.*

This Professorship was founded by ordinance of the Universities Commission (1858) of date 25th November, 1861. The Professor is appointed by the Crown.

#### *Professors.*

1863. William P. Dickson, D.D.

1873. William Stewart, D.D.

1910. GEORGE MILLIGAN, D.D.

I. The class is as a rule divided into two divisions—a Junior and a Senior, and as the courses of lectures are arranged to extend over two sessions, the class should be attended in two *consecutive* years. In view, however, of the special arrangements with the U.F. Church College, the two divisions will meet together each day at 9 a.m. during Session 1918-19.

II. The Lectures will deal with (*a*) General Introduction to the Gospels, and (*b*) Text and Canon of the New Testament.

III. The books to be read in class will include parts of the Gospel according to St. Luke and the Epistle to the Hebrews.

IV. Special arrangements will be made for more advanced work in connection with the Greek Papyri, etc., if desired.

### V.—ENDOWED DEMONSTRATORSHIPS, ETC.

#### THE ARNOTT AND THOMSON DEMONSTRATORSHIP IN EXPERIMENTAL PHYSICS.

This Demonstratorship was founded in 1875 by the liberality of Sir William Thomson and Mrs. Arnott, widow of Dr. Neil Arnott, founder of the Arnott Prizes, who invested respectively £2,000 and £1,000 for the purpose of encouraging the study of Experimental Physics in the University of Glasgow. The Demonstratorship is in connection with the Physical Laboratory of the University. The holder is appointed annually by the Professor of Natural Philosophy, subject to the approval of the University Court, and his duties are to perform, and direct in the performance of, experimental researches in the Physical Laboratory, in connection with, and under the direction of, the Professor of Natural Philosophy, to give practical laboratory courses suitable for Medical and Engineering students, and to take part in the teaching of the Natural Philosophy Class, if required by the Professor, and in such way and at such times as may be appointed by the Senatus Academicus of the University.

#### *Demonstrators.*

- 1875. James Thomson Bottomley, M.A., D.Sc., F.R.S.
- 1899. James W. Peck, M.A.
- 1903. James Muir, D.Sc., M.A.
- 1906. James G. Gray, B.Sc.
- 1908. GEORGE E. ALLAN, D.Sc.

---

#### THE MUIRHEAD DEMONSTRATORSHIP OF PHYSIOLOGY.

In January, 1877, the late Dr. Henry Muirhead of Longdales, Bothwell Parish, and afterwards of Cambuslang, presented to the University the sum of £2,100, and in November, 1879, a further sum of £400, to endow a Demonstratorship of Physiology in connection with the Chair of Institutes of Medicine—the main object being the promotion of medical science by the training of young men of suitable capacity to become teachers and investigators of Physiology. The regulations with reference to the appointment are as follows:—

1. That the title of the appointment be “The Muirhead Demonstrator of Physiology.”

2. That the holder of the office shall act as an assistant to the Professor of Institutes of Medicine in teaching the classes of Systematic and Practical Physiology and in original investigation.

3. That he shall also be expected and encouraged to engage in independent scientific investigation under the direction of the Professor.

4. That he will not be entitled to conduct any class on his own account without the consent of the Professor.

5. That the incumbent will be expected to devote his entire time to the duties of the appointment.

6. That the appointment be made annually by the Senatus Academicus, with the consent of the University Court, on the recommendation of the Professor of the Institutes of Medicine, who shall furnish evidence to the Senatus of the suitability of the person recommended by him.

*Present Demonstrator.*

DAVID BURNS, M.A., B.Sc.

#### GRIEVE LECTURESHIP ON PHYSIOLOGICAL CHEMISTRY.

The late John Grieve, M.A., M.D., who died at Glasgow on 16th April, 1896, directed his Trustees to hand over to the University the sum of £8000 (less legacy duty) for the foundation of a Lectureship on some subject selected by them after consultation with certain Professors. The subject selected was Physiological Chemistry, and the following scheme prepared by the Senate was approved by the University Court on 9th February, 1905.

1. The bequest of the late Dr. John Grieve shall be applied to the foundation of a Lectureship on Physiological Chemistry in the University of Glasgow, to be called the "Grieve Lectureship on Physiological Chemistry."

2. The capital sum of the bequest shall be invested by the University Court, and the annual revenue shall be the salary of the holder of the lectureship for the time being.

3. The appointment to the lectureship shall be made by the University Court.

4. The appointment shall be for a term of five years, but the lecturer may be re-elected in the discretion of the University Court.

5. The lectureship shall be in connection with the Physiological Department of the University, and accommodation for

the lecturer shall be provided in that Department by arrangement with the Professor of Physiology.

6. The lecturer shall not engage in medical or surgical practice during his tenure of office.

7. The duties of the Lecturer shall be as follows :

(1) He shall deliver annually such a course of lectures or give such demonstrations in Physiological Chemistry, on the more advanced aspects of the subject, in its relation to the phenomena of Plant and Animal life, as may from time to time be arranged by the Senate, with the approval of the University Court.

(2) He shall take charge of the laboratory for Physiological Chemistry in the Physiological Department of the new buildings, under the control of the Professor, in terms of Ordinance No. 17, General No. 10 ; he shall supervise the chemical work of students of physiology preparing for the degree of Bachelor of Science ; and generally he shall give assistance to students or others who may be engaged in researches in Physiological Chemistry.

(3) He shall make arrangements, under the control of the Professor, for the teaching of elementary Physiological Chemistry to students of science and medicine, in terms of the above Ordinance.

(4) He shall prosecute original research in Physiological Chemistry.

*Lecturer.*—1905. EDWARD P. CATHCART, M.D., D.Sc.  
1915. (Vacant.)

---

#### THE DR. ROBERT POLLOK LECTURESHIP IN MATERIA MEDICA AND PHARMACOLOGY.

Dr. Robert Pollok, who graduated at Glasgow University in 1876, and who resided in Pollokshields, bequeathed to the University a legacy of £10,000 (received in 1914) for the purpose of founding this Lectureship for Research in Materia Medica and Pharmacology.

*Lecturer.*—1914. WALTER J. DILLING, M.B., Ch.B.

---

#### THE WILLIAM WEIR ASSISTANTSHIP IN MATERIA MEDICA.

The late Mr. William Weir, of Kildonan, bequeathed a sum of £5,000 to the University Court to the end that the income

of the same should be applied in providing an Assistant to the Professor of Materia Medica in addition to the Assistants appointed by the University Court. The amount of the legacy was received from Mr. Weir's Trustees in 1914.

*Assistant.*—1914. GEORGE H. CLARK, M.D., D.P.H.

---

#### THE WILLIAM BAXTER DEMONSTRATORSHIP IN GEOLOGY.

This Demonstratorship was founded by the Trust Disposition and Settlement of Mr. William Baxter, Hillhead, Glasgow, who died on 20th November, 1888, and bequeathed to the Senate the sum of £2,500, free of legacy duty, the annual income of which, less the cost of management, he directed should be paid half-yearly to the Demonstrator on the joint certificate of the Clerk of Senate and the teacher of Geology for the time being. The Senate are the patrons of the Demonstratorship.

The following Regulations having been drawn by the Senate, were approved by the University Court on 16th June, 1908:—

1. The Demonstratorship shall be held for three years, and shall be open to the candidate who during the period intervening since the preceding appointment was made shall have passed the Degree of B.Sc. with special distinction in Geology, in the Final Science Examination, or, in the event of several candidates obtaining such special distinction, to the candidate whose aggregate marks for the whole subjects of the said degree are the highest; but in the event of no candidate attaining to special distinction in Geology in the Final Science Examination, the Senate may, if they see fit, award the Demonstratorship to the candidate who shall stand highest in the list, but any candidate who fails to obtain at least 60 per cent. of marks in the Department of Geology shall *eo ipso* be disqualified to hold the Demonstratorship.

2. The three years' tenure of office shall be subject to the condition that the incumbent discharges the duties of the office to the satisfaction of the Senate, who have power "to deprive any Demonstrator of his stipend, or a part thereof, should they at any time become dissatisfied with his conduct or his ability to carry out the duties of his office, or with the discharge of his duties, or for any other reason they may consider sufficient," the Demonstrator having the right of appeal to the University Court in the event of such deprivation.

3. The duties of the Demonstrator shall be :—

(1) To act as Demonstrator in the laboratory classes of the Geological School of the University.

(2) To assist in the field work of the Geological School of the University, and to collect geological materials for the University Collection.

(3) To give at least two evening lectures or demonstrations to members of the Geological Society of Glasgow during each winter session of his Demonstratorship.

(4) To devote during the session three hours a day on such days as there are not excursions or laboratory classes to the arrangement of the Geological Museum and teaching collections, or, should the Professor of Geology prefer, to undertake research work on material in the Hunterian Museum or on any subject connected with West Scottish Geology approved by the Professor of Geology, and to give a course of lectures or other teaching in the summer session.

4. These lectures may be attended (a) by matriculated students of Geology, free; (b) by any matriculated student not a member of the class of Geology, on payment to the Demonstrator of a fee of £1 ls. for each course, or such higher fee as the University Court may fix; (c) by any member of the Geological Society of Glasgow on payment of five shillings in lieu of matriculation fee for the winter or summer session, in addition to the authorized class fee.

5. In the event of no appointment being made, or of the Demonstrator resigning, retiring, or being deprived, the revenue accruing during the period of vacancy shall be added to the capital, and the annual income thereof to the stipend payable to the Demonstrators.

*Demonstrator.*

1917. COLIN M. LEITCH, B.Sc.

WALTONIAN MEDICAL LECTURESHIP.

This Lectureship was founded in 1788 by the Rev. Dr. William Walton, Rector of Upton, in the County of Huntingdon, who bequeathed to the Senate for its support the sum of £1000, increased by subsequent accumulations to

£2850. The lecturer is required to take for his subject that branch of Medicine or Science connected with Medicine which may be assigned to him by the Governing Body of the University. From 1792 a salary was provided out of the Walton Fund for a lecturer on Midwifery till 1815, when the Chair of Midwifery was founded. From 1816 provision was made in like manner for the teaching of *Materia Medica* till a Chair in that subject was founded in 1831. After 1831 the lectureship was devoted to the subject of Ophthalmology, but, on the resignation of Dr. Thomas Reid in the end of 1900, the University Court resolved to devote the proceeds of the Foundation to the teaching of some other subject. In 1908 the Carnegie Trust provided £2500 towards the endowment of a Lectureship in Organic Chemistry, and the University Court conjoined with the income of this endowment the revenue of the Waltonian Fund. Hence the holder of both is styled the Waltonian Lecturer and Lecturer on Organic Chemistry.

*Lecturers.*

*Midwifery*—1792-1815. James Towers, C.M.

*Materia Medica*—1816-1831. Richard Millar, M.D.

*Ophthalmology*—1831-1868. William M'Kenzie, M.D.

*Ophthalmology*—1871-1900. Thomas Reid, M.D., LL.D.

*Organic Chemistry*—1908. Thomas S. Patterson, Ph.D., D.Sc.

GIFFORD LECTURESHIP ON NATURAL THEOLOGY.

This Lectureship, as well as similar Lectureships in the other Scottish Universities, was founded in 1887 in accordance with the Trust Disposition and Settlement of the late Adam Gifford, sometime one of the Senators of the College of Justice, Scotland. Lord Gifford directed his Trustees to pay over to the Senatus Academicus of the University of Glasgow the sum of Twenty Thousand Pounds for the purpose of establishing a Lectureship or Popular Chair for promoting, advancing, and diffusing the study of Natural Theology, in the widest sense of that term—in other words, “the Knowledge of God, the Infinite, the All, the First and Only Cause, the One and the Sole Substance, the Sole Being, the Sole Reality, and the Sole Existence, the Knowledge of his Nature and Attributes, the Knowledge of the Relations which men and the whole universe

bear to Him, the Knowledge of the Nature and Foundation of Ethics or Morals, and of all Obligations and Duties thence arising." The Senate are the Patrons. The Lecturer is appointed for a period of two years and no longer, but the same Lecturer may be reappointed for other two periods of two years each, provided that no one person shall hold the office of Lecturer in this University for more than six years in all. The Lecturer is subjected to no test of any kind, and he is not required to take any oath, or to emit or subscribe any declaration of belief, or to make any promise of any kind. The Founder expressed a wish that the subject should be treated as a strictly natural science, like astronomy or chemistry. Matri-culated students and others may attend the Lectures.

- 1888. Professor Max Müller.
- 1892. Principal Caird, D.D., LL.D.
- 1893. Professor William Wallace, M.A.
- 1895. Principal Caird, D.D., LL.D.
- 1896. Professor Alexander B. Bruce, D.D.
- 1900. Edward Caird, D.C.L., LL.D., Master of Balliol.
- 1903. Professor Émile Boutroux.
- 1906. Professor A. C. Bradley, LL.D.
- 1910. Professor John Watson, M.A., LL.D.
- 1913. The Right Hon. A. J. Balfour, M.P.
- 1916. PROFESSOR SAMUEL ALEXANDER, LL.D., F.B.A.

---

#### ALEXANDER ROBERTSON LECTURESHIP.

The Rev. Alexander Robertson, a probationer of the Free Church of Scotland, who died at Glasgow on 3rd August, 1899, left the residue of his estate, amounting to £2500, for the endowment of a Lectureship in defence of the Christian Religion. The regulations drawn up by his Trustees—the late Mr. James Lymburn, Librarian to the University, and the late Rev. James B. Dalgety, Paisley—received the sanction of the University Court on 14th November, 1901, and are as follows:

1. The Lectureship shall be called the Alexander Robertson Lectures.
2. The course shall be held not oftener than once in every two years, and shall consist of not fewer than five lectures.

3. Out of the revenue of the Lectureship Fund the lecturer shall be paid the sum of £100 when the lectures have been delivered, and a further sum of £50, provided he shall have published his lectures within one year of their delivery, and shall have furnished to the Library of the University of Glasgow fifty copies for distribution.

4. The Lecturer shall be appointed by the University Court on the nomination of a Committee consisting of the Principal of the University and of the Professors in the Faculty of Theology; and it shall be in the power of the Committee to nominate, if they see fit, a member of the Faculty of Theology.

5. It shall be the duty of the Court, at least twelve months before the income of the Lectureship Fund shall have reached the sum necessary to pay the remuneration of the Lecturer and the grant for publication of the lectures, to send intimation to that effect to the Dean of the Faculty of Theology, and should the aforesaid Committee fail to nominate any one within six months after receiving the said intimation, it shall be in the power of the Court to proceed of itself to the selection and appointment of a Lecturer.

6. The lectures shall be delivered at such times and in such place or places as the said Committee may appoint. Admission to the course shall not be restricted to matriculated students, but shall be freely open to the general public.

7. All surplus revenue and any balance accruing from the non-publication of the lectures or otherwise shall be added to the capital fund of the Lectureship. But should at any time the biennial income of the fund reach a larger sum than £150, two-thirds of the balance over that amount shall go to augment the emolument of the Lecturer, and one-third to increase the grant for the publication of the lectures.

#### *Lecturers.*

- 1904. John Morrison, D.D.
- 1906. Ernest F. Scott, M.A.
- 1908. Andrew Miller, M.A.
- 1910. James Moffatt, M.A., D.Litt., D.D.
- 1912. Rev. Henry J. Wotherspoon, M.A.
- 1914. Rev. J. E. H. Thomson, D.D.
- 1916. REV. T. H. WEIR, B.D., M.R.A.S.

## GRAHAM YOUNG LECTURESHIP IN METALLURGICAL CHEMISTRY.

In 1899 the University Court instituted a Lectureship in Metallurgical Chemistry, and in 1908 the Trustees of the late T. Graham Young, Esq., provided £5000 for its endowment.

*Lecturers.*

1899. William Carrick Anderson, M.A., D.Sc.

1905. Charles Edward Fawsitt, Ph.D., D.Sc.

1908. CECIL H. DESCH, D.Sc., Ph.D.

## THE HASTIE LECTURESHIP.

The friends of the late Rev. William Hastie, D.D., Professor of Divinity in the University, having subscribed the sum of £1000 to perpetuate his memory, resolved on 24th November, 1905, that the fund should be vested in six Trustees, divided into three official and three elected Trustees. The official Trustees are the Principal, the Dean of the Faculty of Theology, and the Professor of Divinity. Should the Professor of Divinity be also Dean, then the third official Trustee is a Professor in the Faculty of Theology, nominated by the Faculty. The other Trustees were elected by the donors from amongst themselves. In certain contingencies vacancies in the elected Trustees are filled up by the Presbytery of Glasgow and the Senate alternately. The subscribers further resolved that a Lectureship to be called the Hastie Lectureship should be founded, its object being to encourage the study of Theology amongst the Ministers of the Church of Scotland. The Lecturer is appointed by the Trustees and holds office for three years, delivering not less than four or more than six lectures, in Glasgow University or elsewhere as the Trustees may determine. Admission to the lectures is free to all. The Lecturer receives the free proceeds of the Fund, and he is bound to publish at least 500 copies of his lectures at his own expense and to present to the Trustees ten copies for distribution.

*Lecturers.*

1906. Rev. Donald M'Millan, D.D.

1909. Rev. James H. Mackay, M.A.

1912. Rev. Wm. S. Provand, M.A.

1915. REV. THOMAS WILSON, B.D.

## VI.—SPECIAL STUDY AND RESEARCH.

In Ordinance No. 61, the Universities Commission (1889) made the following regulations for the encouragement of special study and research, and for the appointment of Research Fellows :—

I. It shall be in the power of the Senatus Academicus in each University, with the approval of the University Court, to make regulations under which graduates of Scottish Universities or of other Universities recognised by the University Court for the purposes of this ordinance, or other persons who have given satisfactory proof of general education and of fitness to engage in some special study or research, may be admitted to prosecute such study or research in the University [or in a College affiliated thereto<sup>1</sup>].

II. It shall be the duty of the Senatus Academicus in each University—(1) To receive and decide upon all applications for admission to prosecute special study or research; (2) To prepare a list of all persons so admitted (hereinafter referred to as Research Students); (3) To make regulations for the supervision of their work; (4) To satisfy themselves from time to time that the Research Students are carrying on their work in the University [or in a College affiliated thereto] in a satisfactory manner; (5) To suspend or exclude from any course any student whose conduct or progress is unsatisfactory.

III. Every applicant for admission must send in to the Senatus Academicus a written application stating any degree or other distinction which he has already obtained, the line of study or research which he wishes to prosecute and the probable period of its duration, together with evidence as to his character, capacity, and general qualifications.<sup>2</sup>

IV. Any application for admission shall be in the first instance referred by the Senatus Academicus to the appropriate Faculty, or to a Committee appointed by the Senatus; one member of the Committee shall always be a Professor or

<sup>1</sup> Taken from U.C. Ord. No. XXXIX.

<sup>2</sup> Applications to be lodged with the Clerk of Senate not later than 28th September, 1918. On request a printed form will be supplied.

Lecturer within whose department the proposed line of study or research falls. No applicant shall be recommended by the Faculty or the Committee who has not satisfied them by examination or otherwise that he is qualified to prosecute the proposed line of study or research, and further—(a) That his proposed line of study or research is a fit and proper one; (b) That he possesses a good general education; (c) That he is of good character; (d) That he proposes to prosecute his studies or research during a period to be approved by the Senatus Academicus. The Faculty or the Committee shall make a report to the Senatus Academicus upon each application. It shall also be their duty, subject to the regulations of the Senatus Academicus, to provide for the supervision of the Research Student's work, and to report at least once a year to the Senatus as to his progress and conduct. The Senatus shall then determine whether he shall remain a Research Student.

V. Every Research Student shall be required to matriculate each year, paying the ordinary fee.

VI. Research Students shall have access to and the use of the University Laboratories and Museums, under such conditions as to payment and otherwise as the University Court, after consultation with the Senatus Academicus, may determine.

Under this section the following regulations have been made:—1. In each laboratory each Research Student shall make payment of a sum which is estimated by the Professor as sufficient to cover the ordinary expenses incident to the Research Student's work. Apparatus and material beyond what is included in the ordinary operations of the laboratory shall be charged to the Student, unless the Professor judges that such apparatus and material will be a useful addition to the laboratory. But it shall be in the power of each Professor to propose to the University Court in any particular case that these payments may be remitted in whole or in part. 2. In all matters of discipline the Research Student shall be under the control of the Professor in whose laboratory he works. 3. All papers arising out of work done in a laboratory shall be submitted to the Professor before publication, and in all such publications a due recognition of the laboratory shall be inserted.

VII. The title of Research Fellow may be conferred by the Senatus Academicus, with the approval of the University Court, on Research Students who have shown special distinction. Such title shall not of itself confer any right to stipend, but it shall be in the power of the University Court to provide a stipend of such amount and for such period as it may think fit to any Research Fellow under the powers of Ordinance No. 25, Section XI., sub-section 8.

VIII. (1) The Research Fellows shall be appointed as aforesaid after consideration of the report or reports submitted in terms of Section IV. hereof.

(2) The title of Research Fellow may be conferred either at the commencement of the Research Student's course of study or research, or at any time during its progress, as the Senatus Academicus may determine.

(3) Research Fellows shall retain their title and stipend, if any, for the period during which they are engaged in special study or research in the University, and no longer.

(4) Research Students who have been appointed Research Fellows shall continue to be subject to the conditions above prescribed as to the supervision of their work and the reports to be made thereon.

IX. Nothing herein contained shall prejudice the right of Research Students to such Fellowships, Scholarships, or Prizes as may be open to them by Ordinance or Deed of Foundation.

X. The University Court may, subject to the provisions of Ordinance No. 25, Section XI., sub-section 8, provide such sums as it may think fit in aid of the expenses of special study or research.

#### RESEARCH STUDENTS, 1917-18.

Louis P. W. Renouf, B.A. (Hons.) Nat. Sc. (Cambridge); William S. Brownlee, B.D.; Margaret L. Missen, M.A.; Hugh G. Brennan, M.A.

#### SPECIAL TEACHING AND STUDY BY SCHOLARS AND FELLOWS IN 1917-18.

(Short Courses of Lectures, Study or Research in prescribed subjects, Tutorial work and assistance with the written work of the various departments.)

Israel Levine, M.A., *Ewing Fellow* (Mental Philosophy); Isabella M. Urquhart, M.A., *Luke Fellow* (English).

## VII.—THE CARNEGIE TRUST FOR THE UNIVERSITIES OF SCOTLAND.

This Trust was created by Mr. Andrew Carnegie of New York, and of Skibo in the County of Sutherland. By a trust-deed dated 7th June, 1901, Mr. Carnegie conveyed to Trustees \$10,000,000 Bonds by the United States Steel Corporation, bearing interest at 5 per cent., and directed that one-half of the net income should be applied towards the improvement and expansion of the Universities of Scotland in the Faculties of Science and Medicine, also for improving and extending the opportunities for scientific study and research, and for increasing the facilities for acquiring a knowledge of History, Economics, English Literature, and Modern Languages, and such other subjects cognate to a technical or commercial education as can be brought within the scope of the University curriculum, by the erection and maintenance of buildings, laboratories, class-rooms, museums or libraries, the providing of efficient apparatus, books, and equipment, the institution and endowment of Professorships and Lectureships, including post-graduate Lectureships and Scholarships, more especially Scholarships for the purpose of encouraging research, or in such other manner as the Executive Committee of the Trustees might from time to time decide.

It is directed that the other half of the income, or such part thereof as in each year may be found requisite, shall be devoted to the payment of the whole or part of the ordinary class fees exigible by the Universities from students of Scottish birth or extraction, and of 16 years of age or upwards, or scholars who have given two years' attendance after the age of 14 years at such schools and institutions in Scotland as are under inspection by the Scotch Education Department. They must have passed the examination qualifying for admission to the classes for which payment of fees is to be made by the Trust. Applications for the payment of fees must be made in the form prescribed by the Committee. The decision of the Committee in all questions of qualification shall be final, and the fees of all applicants declared to be eligible shall in each case be paid by the Committee as they become due to the factors or authorised officers of the Universities. The Committee shall

also have power to withhold payment of fees from any student who is guilty of misconduct, or who fails within a reasonable time to pass the ordinary examinations of the University or any of them. Any surplus remaining in any year from the income applicable to this head of expenditure shall be applied to the first head of expenditure. Extra-mural Colleges, Schools, or classes in Scotland, attendance at which is recognised as qualifying or assisting to qualify for graduation shall, on application, be entitled to participate under the first head of expenditure to such an extent as the Committee may from time to time determine, and the students thereof shall be admitted to the privileges of the second half. In the case of schools or institutions in Scotland established to provide technical or commercial education, the Committee may recognise classes which, though outside the present range of the University curriculum, can be accepted as doing work of a University level, and may allow them and the students thereof to participate under both heads of expenditure to such an extent as the Committee may from time to time determine.

Any surplus income which may remain after satisfying the preceding requirements is to be at the disposal of the Committee, who may expend it (1) in establishing or assisting to establish courses of lectures in convenient centres by Professors or Lecturers of the Universities or Extra-mural Colleges or Schools, in Science and the subjects before-mentioned; or (2) for the benefit of evening classes of students engaged in industrial or professional occupations during the day; or (3) in any other way the Trustees may think proper towards furthering the usefulness of the Universities in connection with the purposes expressed in the trust-deed and constitution. The benefits of the Trust are available to students of both sexes.

The Trustees are partly nominated, and there are also *ex officio* and elected members. The following are the nominated members:

The Right Hon. Lord Balfour of Burleigh, P.C., K.T., LL.D.,  
*Chairman.*

The Earl of Rosebery and Midlothian, K.G., K.T.

The Right Hon. Lord Reay of Reay, G.C.I.E., G.C.S.I.,  
D.C.L., LL.D.

The Right Hon. Arthur James Balfour, M.P., D.C.L., LL.D.

The Right Hon. Lord Bryce of Dechmont, D.C.L., LL.D.

The Right Hon. Lord Morley, D.C.L., LL.D., F.R.S.

W. J. Dundas, Esq., LL.D.

The Right Hon. Lord Haldane of Cloan, P.C., K.C., LL.D.

The Right Hon. Lord Shaw of Dunfermline, P.C., LL.D.

The Right Hon. Herbert Henry Asquith, M.P., D.C.L.

Sir George T. Beilby, F.R.S., LL.D.

Sir Joseph J. Thomson, A.M., D.Sc., F.R.S., LL.D.

Lieut.-Col. Sir David Prain, F.R.S., LL.D.

The Honourable Lord Sands.

The following are the *ex officio* members :

His Majesty's Secretary for Scotland.

The Lord Provost of Edinburgh.

The Lord Provost of Glasgow.

The Provost of Dunfermline.

The elected members are four in number, one chosen by the University Court of each of the four Scottish Universities. They hold office for periods of four years, and are at present Principal Sir John Herkless (St. Andrews), Principal Sir Donald MacAlister (Glasgow), Professor Hay (Aberdeen), and Principal Sir J. Alfred Ewing (Edinburgh).

The administration of the Trust is conducted by an Executive Committee of nine members, one of whom is the Chairman of the Trust. Two of the four Trustees elected by the Universities are members of the Executive Committee for the first two years, the other two for the next two years, and so on.

The Executive Committee for the Academic year 1918-19 is as follows :

Lord Balfour of Burleigh, P.C., K.T., *Chairman*.

W. J. Dundas, Esq., LL.D.

Lord Shaw of Dunfermline, P.C., LL.D.

The Lord Provost of Edinburgh, or an assessor nominated by him, after consultation and with the consent of the Trustees.

Sir William Bilsland, Bart., LL.D., as assessor for the Lord Provost of Glasgow.

Professor Matthew Hay, M.D., LL.D., Aberdeen.

Principal Sir J. Alfred Ewing, K.C.B., LL.D., Edinburgh.

Sir Geo. T. Beilby, F.R.S., LL.D.

The Honourable Lord Sands.

The offices of the Trust are at the Merchants' Hall, Hanover Street, Edinburgh. *Secretary*, Sir W. S. M'Cormick; *Treasurer*, Dr. John Ross. All applications should be addressed to the Secretary of the Trust.

The following excerpt from a letter written by Dr. Carnegie to the Earl of Elgin, the original Chairman of the Trust, explains the intention of the founder:—

“London, 7th June, 1901.

“My Dear Lord Elgin,

“As your Lordship is aware, my desire throughout has been that no capable student should be debarred from attending the University on account of the payment of fees. I believe that the conditions of application ensure a sufficient standard of merit, and I hope that the honest pride for which my countrymen are distinguished will prevent claims from those who do not require assistance, and that the invidious task of enquiring into the circumstances of each candidate need not be imposed upon the Trustees. But, to further mark my personal belief and hope in this matter, I have made provision in the Trust Deed that the Trustees may receive funds from others to be administered along with the funds placed by me. I consider this a valuable clause, believing, from my own experience with young men, that some students in after life may value the privilege of repaying advances received from the Trustees, although these are free gifts. I hope the Trustees will gladly welcome such repayments, if offered, as this will enable such students as prefer to do so to consider the payments made on their account merely as advances which they resolve to repay if ever in a position to do so, and that this will protect and foster the spirit of manly independence so dear to the Scot.

Very truly yours,

ANDREW CARNEGIE.”

#### ASSISTANCE IN PAYMENT OF CLASS FEES.

The following are the regulations:—

I. AGE.—Applicants must be over sixteen years of age.

II. NATIONALITY.—Applicants must be of Scottish birth or extraction, or must have given two years' attendance after

the age of fourteen at a school or institution under inspection of the Scotch Education Department.

III. PRELIMINARY EDUCATION.—Applicants qualified under the two previous Regulations who have been pupils of schools under the Scottish Education Department will be eligible for assistance in the payment of Class Fees if they have obtained the Leaving Certificate of the Department, provided that it bears evidence of such preliminary education as is required by the Universities for their respective graduating curricula, or if it does not, provided that it has been supplemented by such passes either in the Scottish Universities Preliminary or other Examination as will satisfy the above requirement of the Universities.

Where applicants have not been pupils of schools under the Scottish Education Department, or where other good ground for not having obtained the Leaving Certificate can be shown, the Executive Committee have power to accept instead what they deem equivalent evidence of attainments in the shape of passes gained either in the Scottish Universities Preliminary or other examination, provided that no applicant will be considered eligible who has to pass any further preliminary examination before completing his graduating curriculum.

IV. COURSE OF STUDY.—Applicants (in the Faculties of Arts and Science) must have had their course of study for each academic year approved by the University Adviser of Studies.

V. DEGREE EXAMINATIONS.—Applicants must have passed the graduation examinations belonging to the previous stage of their curriculum before becoming eligible for assistance in the payment of fees of classes belonging to a further stage.

VI. REPORTS ON ATTENDANCE AND WORK.—Beneficiaries come under an obligation to submit to the Executive Committee at the end of each session particulars as to their attendance and work, any distinctions they may have gained, and any graduation examinations they may have passed.

NOTE.—Applicants, in writing to the Secretary of the Trust for Application Forms or Class Lists, must name the University and Faculty in which they intend to study, and must state whether they have or have not previously obtained the benefits of the Trust.

#### POST-GRADUATE STUDY AND RESEARCH.

An important part of the Trust's operations concerns the

endowment of Post-Graduate Study and Research, and the Executive Committee have issued certain Regulations defining the purposes for which Scholarships, Fellowships, and Grants in aid of Research are offered, and setting forth the conditions under which they may be held. Nominations for Scholarships and Applications for Fellowships and Grants must be lodged with the Secretary *not later than 15th April in any year*. The final award of the Executive Committee will be announced in due course; and all Scholarships, Fellowships, and Grants awarded in any year shall date from 1st October, unless expressly stated otherwise.

A student who intends to graduate at the close of the summer session or opening of the winter session may be nominated for a Scholarship, or may apply for a Research Grant on or before the 15th April preceding; but he shall not be eligible to receive either until he has graduated.

The following are the regulations:—

#### I. SCHOLARSHIPS.

##### (a) *In Science and Medicine.*

The Executive Committee are prepared to consider applications for Carnegie Scholarships in Science and Medicine on the following conditions:

I. A Scholar must be a graduate of a Scottish University who desires to devote himself to higher study and research in some department of science or medicine.

II. A Scholarship shall be of the annual value of £100, payable by quarterly instalments in advance, the second and subsequent instalments being payable on the receipt of a satisfactory report by the Scholar and a certificate from the authority under whose supervision the Scholar has been working. The Executive Committee reserve power to suspend or withhold payment, if not satisfied with the progress or conduct of the Scholar.

A Scholarship shall not be held along with any other scholarship or position of emolument, except with the sanction of the Executive Committee.

In the event of a candidate holding or obtaining any other scholarship or position of emolument, the Executive Committee may, in place of granting or continuing to grant a Carnegie

Scholarship, supplement the amount of such scholarship or emolument so as to bring the income up to at least £100, the candidate thereby ranking, and coming under the same regulations, as a Carnegie Scholar.

III. A Scholar shall ordinarily be expected to devote his whole time to the purpose for which the Scholarship is awarded. If he proposes to undertake other work during his tenure of the Scholarship, he must define such work precisely, and obtain the sanction of the Executive Committee.

IV. A Scholarship shall ordinarily be tenable for one year; but it may be renewed for a second year, if the Executive Committee deem this expedient.

V. A candidate must be nominated by a Professor or Lecturer in a Scottish University, or by a Teacher in Scotland recognised for the purpose of graduation by a Scottish University, under whose supervision, unless other supervision be approved by the Executive Committee, he shall work during his tenure of the Scholarship.

The Nomination Form, to be signed by the nominator and the candidate, must contain information on the following points, all of which will be taken into consideration in estimating the relative claims of candidates :

- (1) The age of the candidate, his career as a student, and his knowledge of modern languages.
- (2) His special fitness for the work proposed.
- (3) His programme of study and research during his tenure of the Scholarship, and where and under whose supervision he proposes to work.
- (4) Whether the candidate proposes to undertake other work during his tenure of the Scholarship; and, if so, the character of the work proposed, and the demand on his time which it will involve.
- (5) Whether the candidate holds, or expects to hold, any other scholarship or position of emolument; and if so, particulars of the amount and duration of such scholarship or emolument.
- (6) The names of two or more authorities, other than the nominator, to whom the Executive Committee may refer as to the qualifications of the candidate.

The nominator must, if required, satisfy the Executive Committee that the candidate, if appointed to a Scholarship, will be provided with the facilities and supervision necessary for carrying out his programme of study and research, and that such information will be furnished on his progress and conduct as may seem expedient to the Executive Committee.

VI. By accepting a Scholarship a Scholar comes under an obligation to pursue the programme of research which has been approved by the Executive Committee, and to submit such reports on the progress of his work as the Executive Committee may require.

VII. Nomination Forms may be had from the Secretary to the Carnegie Trust, The Merchants' Hall, Hanover Street, Edinburgh, to whom all communications must be addressed.

*(b) In History, Economics, and Modern Languages and Literature.*

The Executive Committee are prepared to consider applications for Carnegie Scholarships in History, Economics, and Modern Languages and Literature on the following conditions:

I. A Scholar must be a graduate of a Scottish University, preferably with Honours in at least one of the Groups: History, Economic Science, English, Modern Languages and Literature, who desires at home or abroad to devote himself to higher study and investigation within the scope of these groups of study.

II. A Scholarship shall be of the annual value of £100, payable by quarterly instalments in advance, the second and subsequent instalments being payable on the receipt of a satisfactory report by the Scholar and a certificate from the authority under whose supervision the Scholar has been working. The Executive Committee reserve power to suspend or withhold payment, if not satisfied with the progress or conduct of the Scholar.

A Scholarship shall not be held along with any other scholarship or position of emolument, except with the sanction of the Executive Committee.

In the event of a candidate holding or obtaining any other scholarship or position of emolument, the Executive Committee

may, in place of granting or continuing to grant a Carnegie Scholarship, supplement the amount of such scholarship or emolument so as to bring the income up to at least £100, the candidate thereby ranking, and coming under the same regulations, as a Carnegie Scholar.

III. A Scholar shall ordinarily be expected to devote his whole time to the purpose for which the Scholarship is awarded. If he proposes to undertake other work during his tenure of the Scholarship, he must define such work precisely, and obtain the sanction of the Executive Committee.

IV. A Scholarship shall ordinarily be tenable for one year ; but it may be renewed for a second year, if the Executive Committee deem this expedient.

V. A candidate must be nominated by a Professor or Lecturer in a Scottish University, under whose supervision, unless other supervision be approved by the Executive Committee, he shall work during his tenure of the Scholarship.

The Nomination Form, to be signed by the nominator and the candidate, must contain information on the following points, all of which will be taken into consideration in estimating the relative claims of candidates :

(1) The age of the candidate, and his career as a student, including particulars as to his general culture and his knowledge of modern languages.

(2) His special fitness for the work proposed.

(3) His programme of study and investigation during his tenure of the Scholarship, and where and under whose supervision he proposes to work.

(4) Whether the candidate proposes to undertake other work during his tenure of the Scholarship ; and, if so, the character of the work proposed, and the demand on his time which it will involve.

(5) Whether the candidate holds, or expects to hold, any other scholarship or position of emolument ; and if so, particulars of the amount and duration of such scholarship or emolument.

(6) The names of two or more authorities, other than the nominator, to whom the Executive Committee may refer as to the qualifications of the candidate.

The nominator must, if required, satisfy the Executive Committee that the candidate, if appointed to a Scholarship, will be provided with the facilities and supervision necessary for carrying out his programme of study and investigation, and that such information will be furnished on his progress and conduct as may seem expedient to the Executive Committee.

VI. By accepting a Scholarship a Scholar comes under an obligation to pursue the programme of investigation which has been approved by the Executive Committee, and to submit such reports on the progress of his work as the Executive Committee may require.

VII. Nomination Forms may be had from the Secretary to the Carnegie Trust, The Merchants' Hall, Hanover Street, Edinburgh, to whom all communications must be addressed.

## II. FELLOWSHIPS.

### (a) *In Science and Medicine.*

The Executive Committee are prepared to consider applications for Carnegie Fellowships in Science and Medicine on the following conditions :

I. A Fellow must be a graduate of a Scottish University who has given evidence, preferably by work already published, of capability to advance science or medicine by original research, and who desires to devote himself further to this work.

II. A Fellowship shall be of the annual value of £150, exclusive of such special expenses in connection with his research as the Executive Committee may allow. Payment shall be made by half-yearly instalments in advance ; but the Executive Committee reserve power to suspend or withhold payment, if not satisfied with the progress or conduct of the Fellow.

A Fellowship shall not be held along with any other fellowship or position of emolument, except with the sanction of the Executive Committee.

In the event of a candidate holding or obtaining any other fellowship or position of emolument, the Executive Committee may, in place of granting or continuing to grant a Carnegie Fellowship, supplement the amount of such fellowship or emoluments so as to bring the income up to at least £150, the

candidate thereby ranking, and coming under the same regulations, as a Carnegie Fellow.

III. A Fellow shall ordinarily be expected to devote his whole time to the purpose for which the Fellowship is awarded. If he proposes to undertake other work during his tenure of the Fellowship, he must define such work precisely, and obtain the sanction of the Executive Committee.

IV. A Fellowship shall ordinarily be tenable for two years, the extension to a second year being dependent on the receipt of a satisfactory report by the Fellow on his work during the first year; but it may be renewed for a third year, if the Executive Committee deem this expedient.

V. A candidate must furnish the Executive Committee with information on the following points, all of which will be taken into consideration in estimating the relative claims of candidates :—

(1) His age, his career as a student, and his knowledge of modern languages.

(2) His special fitness to conduct the research proposed, and his previous experience, along with any published accounts of work already done.

(3) His programme of research during his tenure of the Fellowship; where he proposes to work; and whether he proposes to work independently or in collaboration.

(4) Whether he proposes to undertake other work during his tenure of the Fellowship; and, if so, the character of the work proposed, and the demand on his time which it will involve.

(5) Whether he holds, or expects to hold, any other fellowship or position of emolument; and if so, particulars of the amount and duration of such fellowship or emolument.

(6) The names of two or more authorities to whom the Executive Committee may refer as to his qualifications.

(7) An estimate, as detailed as is possible, of special expenses, if any, required in connection with the research he proposes to undertake.

VI. By accepting a Fellowship a Fellow comes under an obligation to submit such reports on the progress of his work as the Executive Committee may require.

The publication, in some form, of an account of the results of his research will be expected in all cases.

VII. Application Forms may be had from the Secretary to the Carnegie Trust, The Merchants' Hall, Hanover Street, Edinburgh, to whom all communications must be addressed.

*(b) In History, Economics, and Modern Languages and Literature.*

The Executive Committee are prepared to consider applications for Carnegie Fellowships in History, Economics, and Modern Languages and Literature on the following conditions :

I. A Fellow must be a graduate of a Scottish University, preferably with Honours in at least one of the Groups : History, Economic Science, English, Modern Languages and Literature, who desires to investigate at first-hand, at home or abroad, some historical, social, economic, or educational problem or factor of modern civilisation, and who can give evidence by his previous career and general culture, and also preferably by work already published, of capability to advance knowledge by his proposed investigation.

II. A Fellowship shall be of the annual value of £150, exclusive of such special expenses in connection with his investigation as the Executive Committee may allow. Payment shall be made by half-yearly instalments in advance ; but the Executive Committee reserve power to suspend or withhold payment, if not satisfied with the progress or conduct of the Fellow.

A Fellowship shall not be held along with any other fellowship or position of emolument, except with the sanction of the Executive Committee.

In the event of a candidate holding or obtaining any other fellowship or position of emolument, the Executive Committee may, in place of granting or continuing to grant a Carnegie Fellowship, supplement the amount of such fellowship or emolument so as to bring the income up to at least £150, the candidate thereby ranking, and coming under the same regulations, as a Carnegie Fellow.

III. A Fellow shall ordinarily be expected to devote his whole time to the purpose for which the Fellowship is awarded. If he proposes to undertake other work during his tenure of the Fellowship, he must define such work precisely, and obtain the sanction of the Executive Committee.

IV. A Fellowship shall ordinarily be tenable for two years, the extension to a second year being dependent on the receipt of a satisfactory report by the Fellow on his work during the first year; but it may be renewed for a third year, if the Executive Committee deem this expedient.

V. A candidate must furnish the Executive Committee with information on the following points, all of which will be taken into consideration in estimating the relative claims of candidates:—

(1) His age, and his career as a student, including particulars as to his general culture and his proficiency in the above-named groups of study.

(2) His special fitness to conduct the investigation proposed, and his previous experience, along with any published accounts of work already done.

(3) His programme of investigation during his tenure of the Fellowship; where he proposes to work; and whether he proposes to work independently or in collaboration.

(4) Whether he proposes to undertake other work during his tenure of the Fellowship; and, if so, the character of the work proposed, and the demand on his time which it will involve.

(5) Whether he holds, or expects to hold, any other fellowship or position of emolument; and if so, particulars of the amount and duration of such fellowship or emolument.

(6) The names of two or more authorities to whom the Executive Committee may refer as to his qualifications.

(7) An estimate, as detailed as is possible, of special expenses, if any, required in connection with the investigation he proposes to undertake.

VI. By accepting a Fellowship a Fellow comes under an obligation to submit such reports on the progress of his work as the Executive Committee may require.

A Fellow will be expected to submit for publication a thesis or memoir upon the results of his investigation.

VII. Application Forms may be had from the Secretary to the Carnegie Trust, The Merchants' Hall, Hanover Street, Edinburgh, to whom all communications must be addressed.

## III. GRANTS IN AID OF RESEARCH.

The Executive Committee are prepared to consider applications for Grants in aid of Research on the following conditions :—

I. An applicant for a Research Grant must be a Scottish University Graduate resident in Scotland, or a member of the staff of one of the Universities or Colleges in Scotland receiving Grants from the Trust.

II. A Research Grant is not intended to take the place of such provision as the University Courts may make out of the Grants for Permanent Equipment under the Scheme of "Grants for five years to the four Universities of Scotland."

III. An applicant must furnish the Executive Committee with information on the following points, all of which will be taken into consideration in estimating the relative claims of applicants :—

(1) His experience in research, with copies of or references to any published papers, or, if he has no papers to offer, with references to two or more authorities who are acquainted with his qualifications.

(2) The nature of the research in which he desires to engage, and the results expected to follow therefrom.

(3) The period over which the proposed research is likely to extend, and the approximate amount of time which he expects to be able to devote to it.

(4) A statement of special requirements for the proposed research, with a detailed estimate of the cost.

(5) Whether he has received, or is receiving, any grant from any other source for the same object; and if so, what results have already ensued from his investigations.

IV. By accepting a Grant an applicant comes under an obligation to pursue the programme of research which has been approved, and to send to the Executive Committee, when required, a report containing—(a) a brief statement (not necessarily for publication) showing the results arrived at, or the stage which the inquiry has reached; (b) a statement of the expenditure incurred; and (c) copies of or references to any papers in which results of the research have been printed.

The publication, in some form, of an account of the results of the research will be expected in all cases.

V. Instruments of permanent value purchased by means of the grant shall, at the conclusion of the research or at such other time as the Executive Committee may determine, be placed under the care and at the disposal of the institution in which the research has been conducted, provided that the Executive Committee may, if they see fit, request their return.

VI. An application for a Grant to two or more collaborators in the same research must be signed by each; but they shall appoint one of their number who shall be responsible for furnishing the report, for receiving and disbursing the money, and in general for the conduct of the research.

VII. Application Forms may be had from the Secretary to the Carnegie Trust, The Merchants' Hall, Hanover Street, Edinburgh, and must be returned to him not later than 15th April.

VIII. The final award of the Executive Committee will be announced in due course, and all Grants awarded shall date from 1st October, unless expressly stated otherwise.

#### IV. ESSAY PRIZE.

1. In order further to encourage post-graduate study and research within the departments of History, Economics, and Modern Languages and Literature, the Executive Committee of the Carnegie Trust offer a prize of £100 for annual award, along with the other awards under their Research Scheme, for the best Essay or Thesis on a subject within those departments.

2. The prize will be open each year for competition among graduates of the Scottish Universities who have not been Fellows or Scholars under the Trust.

3. The Committee reserve the right in any year to withhold, divide, or supplement this prize as they may see fit.

4. Award will be made only where the Essay is judged worthy of publication as an original contribution to learning;

and in making an award the Committee may lay down such conditions regarding publication as they may see fit.

5. Essays must be lodged on or before 15th April in each year, with the Secretary of the Trust, The Merchants' Hall, Edinburgh.

The following Graduates of Glasgow University have been appointed to Carnegie Scholarships and Fellowships:—

*Scholars*:—1903-1910 (See *Univ. Cal.* 1911-12). 1911—(See *Univ. Cal.* 1912-13). 1912—(See *Univ. Cal.* 1913-14). 1913—(See *Univ. Cal.* 1914-15). 1914—(See *Univ. Cal.* 1915-16). 1915—(See *Univ. Cal.* 1916-17). 1916.—Elizabeth MacDougall, B.Sc. ; Ratan C. Rawley, M.A.

*Fellows*:—1904-1910 (See *Univ. Cal.* 1911-12). 1911—(See *Univ. Cal.* 1912-13). 1912—(See *Univ. Cal.* 1913-14). 1913—(See *Univ. Cal.* 1914-15). 1914—(See *Univ. Cal.* 1915-16). 1915—(See *Univ. Cal.* 1916-17). 1916.—R. Bruce Young, M.A., M.B., C.M., D.Sc.

---

The following members of the Teaching Staff and Graduates of Glasgow University resident in Scotland have received Grants in aid of Research:—

1903-1910 (See *Univ. Cal.* 1911-12). 1911—(See *Univ. Cal.* 1912-13). 1912—(See *Univ. Cal.* 1913-14). 1913—(See *Univ. Cal.* 1914-15). 1914—(See *Univ. Cal.* 1915-16). 1915—(See *Univ. Cal.* 1916-17). 1916—R. A. Houstoun D.Sc. ; Professor Gregory, F.R.S. ; Murray Macgregor, M.A., B.Sc. ; Alex. Scott, M.A., B.Sc. ; W. R. Smellie, M.A., B.Sc. ; John M. Thompson, M.A., B.Sc. ; J. F. Gemmill, M.D., D.Sc. ; David Burns, M.A., B.Sc. ; Professor D. Noël Paton, F.R.S. ; George Macdonald, M.A., LL.D. ; S. N. Miller, M.A. ; A. E. Clapperton, B.L., LL.D. ; Kenneth M'Kenzie, M.A. ; Professor H. M. B. Reid, D.D. ; J. T. T. Brown, LL.D. ; Ernesto Grillo, D.Litt.

## VIII.—LIBRARIES, MUSEUM, BOTANIC GARDEN.

### UNIVERSITY LIBRARY.

The University Library was founded in the fifteenth century. It contains an extensive and valuable collection of books. The Librarian is appointed by the University Court. The Library is under the immediate superintendence of a Committee consisting of three members of the University or others, not being members of Senate, appointed by the University Court, and of six members of Senate appointed by the Senate. All reports by this Committee are, in the first instance, received by the Senate, and the Senate has power, subject to the review of the University Court, to confirm, modify, or reject the recommendations in such reports.

The Library is always increasing by donations and by a grant of £707 per annum, formerly paid by the Treasury, as compensation for the loss of the Stationers' Hall privilege, and now received from the University Court. In Session 1916-17 the sum of £700 was also received from the additional Treasury grant. The Library receives also a grant of £100 annually for scientific periodicals from the Bellahouston Trustees. The Carnegie Trust has allocated to the Library a grant of £700 for each of the five years from 1st October, 1913.

During recent years the Library has acquired several valuable collections. Amongst these the most important are the following:—

The Collection bequeathed to the University by the late W. EUING, Esq., amounting to about 15,000 volumes. It contains many books printed in the fifteenth and sixteenth centuries, illustrated books, English literature, Classics, above 2,000 Bibles, and a very large number of Psalm and Hymn books.

The library of the late SIR WILLIAM HAMILTON, Professor of Logic in the University of Edinburgh, amounting to about 8,000 volumes. This collection, which consists principally of Classics, editions of Aristotle, and treatises on Logic and Metaphysics, was purchased by private subscription and presented to the University. A list of the subscribers was inserted in the *Calendar* for 1879-80.

The WALKER-ARNOTT Botanical library of 970 volumes.

The Musical library of the late THOMAS L. STILLIE, Esq., numbering 760 volumes. It contains the works of the chief composers, many of them in score, and an extensive series of modern operatic compositions, continental and English.

The collection of books on Palestine, which belonged to the late DR. A. B. M'GRIGOR, consisting of 655 volumes of works, illustrating the natural and civil history, topography, and antiquities of Jerusalem and the Holy Land. This collection was presented along with 83 volumes, containing about 1,000 pamphlets, by Alexander M'Grigor, Esq.

The library of the REV. A. K. MACCALLUM, LL.D., containing over 3,000 volumes, bequeathed to the University—along with an annual sum of £10 to be spent on its increase—as the nucleus of a Celtic library.

A collection of works, numbering over 600 volumes, relating to Mediaeval Philosophy, which formed part of the library of the late PROFESSOR VEITCH—presented by Mrs. Veitch.

A selection, consisting mainly of theological works and amounting to about 3,800 volumes, from the library of the late REV. ALEXANDER ROBERTSON, who also left the residue of his means to found a lectureship in the University in defence of the Christian religion; 800 volumes of general literature from the library of the late F. A. ECK, Esq.; over 1,000 volumes—selected from the library of the late JAMES HOTSON, merchant—presented by DR. THOMAS REID; 700 volumes, including extensive histories of the Netherlands, books on universities and schools, and many theological works, presented by Professor J. E. B. MAYOR, D.D.; a complete copy of Migne's *Patrologia* in 388 volumes, presented along with an oak book-case by the subscribers as a memorial of the late Dr. W. P. DICKSON, Curator of the Library; about 500 volumes from the library of the late Professor HASTIE, D.D.; 978 volumes (including 120 volumes containing 2184 pamphlets) published at the University Press—presented by Mr. JAMES MACLEHOSE, LL.D.; and 373 volumes, chiefly of German literature, from the library of the late Mr. WILLIAM JACKS, LL.D. Glasgow.

The custody and management of the Library are regulated by Ordinance No. 64, and by the rules framed under that Ordinance and approved by the University Court on 14th November, 1895. The following are the principal regulations relative to the use of the Library:—

Books shall not be given out except to the borrower in person, or to some one having written authority from him.

It shall be in the power of the Librarian at any time to withdraw any work from circulation, subject to appeal to the Library Committee; and to call in any book from any borrower after the lapse of the period for which such borrower is entitled to retain it, upon receiving a written request to do so from any person entitled to the use of the Library. In the notice of recall a period of not less than three clear days shall be allowed for making the return, and the penalties leviable for neglect shall be specified in the notice.

The following classes of work, viz.:—Manuscripts, rare books or books in any way difficult to be replaced, works of reference, separate maps or plates, unbound music or parts of works, pamphlets or books not sufficiently protected by the binding, shall not be given out except on an order of, and under conditions to be fixed by, either (a) the Senate, (b) the Library Committee, or (c) three Members of the Library Committee, according as, in the discretion of the Librarian, the special circumstances of each case may require.

Each member of the following classes of readers shall be allowed to borrow, and to have in his, or her, possession at one time the under-mentioned number of volumes, but not more :—

Each Member of the Senatus Academicus, thirty volumes.

Each University Lecturer, twenty volumes.

Each Assistant and Examiner, and each holder of a Teaching Fellowship, fifteen volumes.

The Librarian, ten volumes; and each Assistant-Librarian, five volumes.

Each Extra-Academical Teacher, recognized by the University Court, in the town in which the University is situated, ten volumes.

Each retired Principal or Professor, ten volumes.

Each Member of the University Court, during his tenure of office, ten volumes.

Each Member of the General Council of any Scottish University (and each Graduate under the age of twenty-one years) in each year in which he, or she, shall have paid a subscription to the Library of ten shillings and sixpence, six volumes.

Members of the General Council and Special Readers who hold Scholarships or Fellowships of the University, the Carnegie Trust or similar Foundations, and who are engaged in advanced study or research in the University, shall be allowed to borrow ten volumes at one time but not more, without payment of any subscription. But no such Reader shall be permitted to borrow any book from the Library until he, or she, shall have lodged with the Librarian a deposit of £1 in security for the due return of the books and the payment of any fines which may be incurred.

Provided that no Member of the University Court or of the General Council shall be entitled to obtain from the University Library books required by the teachers or students of the University in the prosecution

of academic work and research, and that it shall be in the discretion of the Librarian, subject to appeal to the Library Committee, to decide from time to time what books are so required.

Any Member of the General Council of any Scottish University shall be allowed to compound for the Library subscription by a single payment of Five Guineas, which shall secure to him, or her, for life the same privileges as would accrue from the annual payments. Any member of the General Council of any Scottish University who has paid a subscription to the Library of ten shillings and sixpence in each of fifteen years (which may or may not be consecutive years) shall be entitled during his or her life, without further payment, to the same privileges as would accrue from continuance of the annual payments.

It shall be in the power of the Library Committee from time to time to grant the use of the Library to persons who may not be Members of the University, for purposes of literary research, and the names of those privileged readers shall be reported annually to the University Court. All grants under this section shall terminate with the close of the reading year, but shall be renewable if again applied for. Each special reader shall pay an annual subscription of ten shillings and sixpence, and shall be entitled to borrow six volumes at one time, but not more.

Subject always to the provision as to the return of books for the annual inspection, all persons entitled to the use of the Library under the foregoing regulations shall have the right to retain each book borrowed during the winter session for one month, and each book borrowed during the summer session for two months, from the date of borrowing; and may further retain each book until it shall have been recalled by the Librarian.

Every Matriculated student, or other Student admitted by ordinance to the use of the Library, shall be entitled to have in his, or her, possession at one time, during the winter session, four volumes but not more, and during the summer session and vacation, six volumes but not more. Every student shall have the right—subject to the return of books for the inspection—to retain any book during the winter session for two weeks, and during the summer session for four weeks, from the date of borrowing, and may further retain each book until it shall have been recalled by the Librarian. But no student shall be permitted to borrow any book from the Library until he, or she, shall have lodged with the Librarian a deposit of £1 in security for the due return of the books and the payment of any fines which may be incurred.

During the winter session such students only as are attending the English Literature classes shall be allowed to borrow works of fiction in English, and then only to the extent of two volumes at one time. During the summer session and vacation students may borrow three volumes of fiction at one time, but not more.

The reading term for Students, Members of General Council, and Special Readers, shall begin with the commencement of the winter session in each year, and terminate with the close of the autumn vacation following.

Readers shall not be allowed to borrow books in more than one capacity.

A general inspection of the Library shall take place in April, beginning with the seventh (except in years when that date falls on a Sunday, when it shall begin on the eighth), and continuing for eight lawful days thereafter.

All works whatever, and by whomsoever borrowed, shall be returned to the Library before the beginning of the period of the annual inspection under the penalties hereinafter mentioned. The Library shall be wholly closed during the time of the inspection.

If any person shall retain any volume after the commencement of the period of the annual inspection, such person shall incur a fine of one shilling for each volume; and in the event of any volume not being returned before the close of one week after the last day of the inspection, the fine shall be repeated from week to week until the volume is returned, or until the total amount of the fine shall have reached the sum of ten shillings.

If any person, when required by the Librarian to return a book, shall fail to do so before the expiry of the time specified in the notice, such person shall incur a fine of one shilling for each volume, and thereafter a further penalty of sixpence per day so long as the volume is not returned, or until the total amount of the fine shall have reached the sum of ten shillings.

The Librarian is instructed forthwith to report to the Library Committee all cases in which he shall find that books have been mutilated, disfigured by writing on the margin, or otherwise injured, while in the possession of readers; and persons guilty of such offences shall be liable to replace the injured books, and shall be fined or suspended from the privileges of the Library at the discretion of the Committee.

So long as any Library subscription or any fine incurred remains unpaid, and so long as any person continues in possession of a book which he is not entitled to retain, the right of the defaulter to the use of the Library shall be suspended and remain in abeyance.

All readers borrowing books from the Library must obtain them from, and return them to, the Assistant-Librarians in the ante-room on the days and during the hours when the Library is open.

Persons other than students who wish to consult books in the Library will be accommodated in the First Bay of the Lower Hall.

Visitors on giving their names will be conducted over the Library by an attendant.

The Library is open for the borrowing and return of books on Mondays, Tuesdays, Wednesdays, Thursdays, and Fridays from 10 till 5 o'clock, except during the months of July and August when it is open from 10 till 2. On Saturdays it is open from 10 till 1, except in the months of July and August when it is wholly closed. The Library is closed during the time of the Annual Inspection in April. During the Christmas holidays it is open from 10 till 3 o'clock, except on Christmas and New Year's Days and on Saturdays.

Additional Regulations approved by the University Court, viz. Nos. 1, 2, 3, 4 on 1st October, 1903, and No. 5 on 2nd November, 1905:—

1. The members of the Court, the Library Committee and the Teaching Staff and all readers (other than matriculated students) entitled to borrow books without payment of subscription, shall have the privilege of free access to the open shelves and to the recent numbers of current periodicals, during the hours when the Library is open.

2. Similar free access shall also be given to matriculated Research Students and to such Carnegie Scholars and Fellows as become members of the University, provided in all cases that they shall have first become readers in the Library and made the usual deposit.

3. The same privileges may be granted to a limited number of matriculated Students who shall be specially recommended to the Library Committee as likely to make a good use of them, on the following conditions :

(a) The recommendation shall be in writing. It must be signed by a University Professor or Lecturer and bear that it is based on personal knowledge. All recommendations shall cease to be valid at the end of the Autumn Vacation.

(b) No recommended Student shall be admitted to free access unless he is a member of the Library, and has made the usual deposit.

4. Members of the Library Committee and readers under the second of these Additional Regulations shall be allowed to borrow ten volumes at one time, but not more.

5. The privilege of free access to the interior of the Library may be granted by the Library Committee to a limited number of members of the General Council, who are readers in the Library, provided they have satisfied the Convener that they are engaged in such special study as would make the use of the privilege an important advantage to them. The grant in this case shall not expire with the close of the autumn vacation.

The following regulations made by the Library Committee in regard to borrowing books from the Simson and the Hamilton collection, were reported to the Senate on 1st December, 1904 :—

Subject to the general restrictions upon, and regulations regarding, the borrowing of books from time to time in force—

(1) No book shall be lent out of the Simson Collection without an express order, in writing, of the Library Committee.

(2) Any Professor, Lecturer, or University Assistant in the Department of Mental Philosophy in the University shall be entitled to borrow from the Hamilton Collection, on presenting a requisition in writing to the Librarian for the book or books wanted.

---

### CATALOGUES.

The General Alphabetical Catalogue may be consulted in the Catalogue Room by Readers, on application to the Librarian.

Students and Graduates who are engaged in special research may, on similar application, have access to the Classified Catalogues. These catalogues were arranged by the late Professor Dickson, who held the office of Curator of the Library, and the expenses incurred by him in connection with their preparation were defrayed by the late Dr. A. B. McGrigor.

### *READING-ROOM.*

In connection with the Library, a Reading-Room, provided with a special collection of books of reference for the use of Matriculated Students, is open for readers, holidays excepted, from 9 A.M. till 4.15 P.M. (Saturdays 9—12).

The Room is primarily intended for readers consulting the books of the Special Collection; but, so far as the accommodation will allow, students may make use of it for individual private study. The following are the principal rules applicable to the Room:—

Every Matriculated Student who shall at the beginning of the session or thereafter record (in a book kept by the Librarian) his desire to use the Reading-Room in accordance with the rules for consulting of books or private study, will receive a voucher entitling him to admission. No student will be admitted to the use of the Room without possessing a voucher.

All readers are required to abstain from talking, whispering, or any other form of distracting or disturbing others, and to enter and leave the Room (and Vestibule) with as little noise as possible. Readers shall exhibit their vouchers when asked; and shall at once give their names and matriculation numbers, if they shall be requested to do so.

Each student, desirous of borrowing books from the Special Collection in the Vestibule, is required to fill up one of the receipt papers with his name, matriculation number, and the title of the book or books wanted, and to present it to the Assistant-Librarian in charge. Students are not permitted to have the use of more than two volumes at one time. The books received are to be used only in the Reading-Room, and are to be returned by the receiver himself into the hands of the Assistant-Librarian. The return of books by those who have to leave the room at the end of any hour is to be made not later than five minutes before that time, and during that interval no books will be given out.

Books of reference not included in the Special Collection, but contained in the General Library, may be obtained for consultation in the Reading-Room on presenting a paper with the name and matriculation number of the reader making the request, and the title of the book wanted, to one of the Assistant-Librarians in the Library.

The Assistant-Librarian in charge is instructed to report at once to the Library Committee the name of any student transgressing the rules.

### DIVINITY HALL LIBRARY.

This Library consists mainly of theological works and contains about 8000 volumes. It is open, free of charge, to all matriculated students of Divinity, attending at least one class in the Divinity Hall. Former students and others may become readers on payment of a fee. The Library is maintained chiefly by an annual grant from the University Court for the purchase of books, etc., which is expended by a Committee of students, elected annually by all the matriculated students of Divinity, one of whom acts as Secretary and Treasurer. The Library is under the care of the University Librarian. For the purpose of lending and receiving books, an Assistant Librarian attends at the Divinity Hall Library for one hour a day during the Session and two hours a week during the vacation. Intimation of the days and hours of attendance is made from time to time.

---

### HUNTERIAN MUSEUM.

This Museum was founded by the eminent William Hunter, M.D., who was born in 1718, at Cantieswell or at Long Calderwood, in the Parish of East Kilbride, Lanarkshire. (See *William Hunter: Physician, Anatomist, Founder of the Hunterian Museum*, by Professor John Young, M.D.) By his will, dated 1783, he bequeathed to the Principal and Professors of the College, and their successors in office, his valuable collection of books, manuscripts, coins, paintings, anatomical preparations, zoological and mineral specimens, and archaeological relics, and also a sum of £8,000, the greater part of which was spent on the erection of a building for their reception and preservation.

This building, erected in 1804, became the property of the Union Railway Company, as explained at page 38. But accommodation has been provided for the collections in the buildings at Gilmorehill. The Museum occupies the north side of the eastern quadrangle, and consists mainly of two halls, the upper of which is galleried—the lower being used for the present as a laboratory by the Natural History Department. With Dr. Hunter's collections there are incorporated the University collection of Roman inscriptions from the Antonine Vallum, and many important donations that have from time to time been received from friends of the University. Conspicuous among such additions are the Eck collection of minerals and precious stones, the minerals and antiquities

presented by Miss Brown of Lanfine, and the contents of the Zoological and Ethnological Museum formerly attached to the Andersonian University.

The Museum contains:—(1) Medical Preparations, (2) Zoological Specimens, (3) Mineral Specimens, (4) Books, Manuscripts, Coins, Paintings, and Archaeological Objects.

The following catalogues of portions of the collections have been published:

1. *Stevenson Catalogue of Greek Coins.* 3 vols. By Geo. Macdonald, M.A. With 102 plates. Price £9 9s.
2. *Tituli Hunteriani: Catalogue of Roman Stones.* By James Macdonald, LL.D. Price 10s. 6d.
3. *Bellahouston Catalogue of Anatomical and Pathological Preparations.* By J. H. Teacher, M.B., C.M. 2 vols. Svo. Price to students, 2s.
4. *Young Memorial Catalogue of the Manuscripts.* By John Young, M.D., and P. H. Aitken, D.Litt.

The late James Stevenson, Esq., of Hailie, defrayed the cost of the Catalogue of Greek Coins, and the Bellahouston Trustees that of the Anatomical Catalogue. The Catalogue of the Printed Books is completed in Manuscript and is about to be published.

The whole Museum is under the immediate superintendence of the Museums Committee, consisting of two members of the University or others, not being members of Senate, appointed by the University Court, and of four members of Senate, appointed by the Senate. All reports by this Committee are, in the first instance, received by the Senate, and the Senate has power, subject to the review of the University Court, to confirm, modify, or reject the recommendations in such reports.

The Museum is open to the public, free of charge, every week-day from 10 A.M. to 4 P.M. in winter, 10 A.M. to 5 P.M. in summer.

### *Donations to University Collections, 1917-18.*

- Miss Monica Taylor: *Cryptochiton stelleri*, preparation of shell-plates.
- Miss Monica Taylor: *Uebria complanata*.
- Mr. J. J. F. X. King, F.F.S.: Collection of Diptera.
- Dr. R. T. Leiper, London School of Tropical Medicine: Collection of internal parasites affecting man.
- Dr. R. T. Leiper: Collection of microscopic preparations illustrating parasites of man.
- Lieut. J. W. Munro: Microscopic preparations of *Sarcoptes*.
- Miss Margaret H. Jepps: Microscopic preparations of pathogenic protozoa.

*BOTANIC GARDEN.*

A piece of ground adjoining the old College was for many years set apart as a Botanic Garden, for the use of the Lecturer on Botany; but the great increase of manufactories and other buildings in its vicinity having rendered it unfit for such a purpose, the University, in 1817, agreed to subscribe £2000 towards the formation of a new Botanic Garden then projected by the citizens of Glasgow, on condition that a Lecture-Room should be erected within it for the exclusive use of the Professor of Botany and his pupils—that every facility should be given them in prosecuting the study of Botany—and that three Directors of the Institution should be annually appointed by the Faculty of the College, to represent and protect the interests of the University. The Garden to which this agreement referred was completed and opened to the public in 1819. A Lecture-Room, in which the Professor of Botany delivered an annual course of Lectures during the summer months, was built; and the collection of plants, from the zeal and ability of the Superintendent, and the favourable situation of Glasgow, had become one of the richest and most valuable in the island. The extension of the town again compelled the removal of the Garden to its present site in Hillhead, at a greater distance from the old College, so that the Professor, while he continued to give in it the practical portions of the course (*Demonstrations*), found it more convenient to deliver his Lectures at the University. The removal of the University to Gilmorehill brought it nearer the Botanic Garden, but the Lecture-Room in the Garden being inadequate for the students attending the course of Elementary Lectures on Botany, and there being no Laboratory, Museum, or Herbarium-Room in the Garden, the Professor has continued to deliver his Lectures and to have his Laboratory at the University. Suitable buildings for the Botanical department have now been erected within the University grounds, and include Lecture Room, Museum, Herbarium, Laboratories, and other rooms.

---

*FACILITIES FOR STUDY OF MARINE BIOLOGY.*

It is very desirable for students in the Department of Zoology and Botany to use any possible opportunity for the study of marine organisms at the coast, especially during the vacations.

. Facilities for this are afforded by various stations on the coast at home or abroad. Of distant establishments the most important are Naples and Plymouth. Others are situated at St. Andrews and Port Erin, while on the Firth of Clyde there are laboratories at Millport and Rothesay.

Students who wish to take up work at any of these establishments are advised to apply for information to the Professors of Zoology and Botany.

## *IX.—GRADUATION IN THE SEVERAL FACULTIES. EXAMINERS.*

### **Preliminary Examinations in Arts, Science, and Medicine.**

The University Court of each University annually appoints as Examiners such number of Professors or Lecturers in the Faculty of Arts in that University, and such additional Examiners as may be deemed necessary. The Preliminary Examinations in Arts, Science, and Medicine are conducted by these Examiners, under the control and supervision of a Joint-Board appointed in January of each year by the several University Courts from among the Examiners, according to a scheme of rotation prescribed in Ordinance No. 13, Section IV., as supplemented by Ordinance No. 43, Section I.

The Joint-Board holds office from the first day of February to the thirty-first day of January in the succeeding year, and sits at each University in rotation in the following order :—Edinburgh (1917-18), Glasgow (1918-19), Aberdeen (1919-20), St. Andrews (1920-21). It consists of eight Professors or Lecturers and eight additional Examiners, two Professors or Lecturers and two additional Examiners being appointed by the University Court of each University, according to the scheme printed on p. 236. In the case of a candidate at a Preliminary Examination who is permitted to offer himself for examination in any language not included in the Preliminary Examination, each University makes special arrangements for the examination of its own candidates.

### **Degrees in Arts.**

The Examiners for Degrees in Arts are the Professors whose subjects qualify for Graduation in Arts, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary.

### **Degrees in Science.**

The Examiners for Degrees in Science are the Professors whose subjects qualify for Graduation in Science, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary.



### Degrees in Medicine.

The Examiners for Graduation in Medicine are the Professors whose subjects qualify for Graduation in Medicine, together with such Lecturers in the University and such additional Examiners appointed by the University Court as the University Court may deem necessary, such provision being made as will ensure that every candidate shall be examined in each subject by at least two Examiners, one of whom shall not be a Professor or Lecturer in the University.

No person is eligible for appointment to the office of additional Examiner, whether for Preliminary Examination or for Degrees in Arts, Science, or Medicine, who is a Professor, Lecturer, or University Assistant or Demonstrator in any Scottish University, and the appointment of any additional Examiner during the currency of his term of office to a Professorship, Lectureship, or to the office of University Assistant or Demonstrator in any Scottish University is held to vacate his office of Examiner. The periods of appointment of additional Examiners are so adjusted as to secure that all the Examiners shall not vacate their office at the same time; but no Examiner can be appointed for a longer period than four years, and no person who has held the office of Examiner for a period of three or four years is eligible for reappointment to the office of Examiner in the same University until he has ceased to hold the office of Examiner in such University for not less than one year.

In the event of a vacancy in the office of a member of the Joint-Board, or of an Examiner or additional Examiner in Arts, Science, or Medicine, occurring otherwise than by expiration of his term of office, the person appointed in his room is appointed for the remainder of such term only.

### Degrees in Law.

The Examiners for the Degree of Bachelor of Laws are the Professors of or Lecturers on the subjects included in the examinations for the said degree, and additional Examiners appointed by the University Court.

The Examiners for the Degree of Bachelor of Law are the Professors of or Lecturers on the subjects included in the examinations for the said degree, and additional examiners appointed by the University Court.

### Degrees in Divinity.

The Examiners for the Degree of Bachelor of Divinity are the Professors of or Lecturers on the subjects included in the examinations, and two additional Examiners appointed by the University Court.

*REGULATIONS FOR GRANTING DEGREES.*

## I. GRADUATION IN ARTS.

The conditions on which the Degree of Master of Arts is conferred are regulated by the University Court Ordinance No. XXIII. (Glasgow No. 6), the principal provisions of which are the following:—

## ACADEMICAL YEAR.

I. The academical year shall commence on the first day of October. In each academical year there shall be one session, which shall include not less than twenty-five teaching weeks. The session shall commence within the first seven days of October, and shall be divided into three terms. The days on which classes shall open and close in each term shall be determined by the Senatus, with the approval of the University Court. For the purpose of reckoning the duration of study in any subject, the Senatus, with the approval of the University Court, shall have power to determine that attendance during one session shall be constituted by attendance during at least two terms of the session.

II. The Curriculum for the Degree of Master of Arts (M.A.) shall extend over not less than three sessions.

PRELIMINARY EXAMINATION.<sup>1</sup>

III. (1) Before entering on the Curriculum (subject to the proviso contained in Section IV., Sub-section 1) each student shall pass a Preliminary Examination in the following subjects:—

1. English.
2. Latin or Greek.
3. Mathematics.
4. One of the following:—Latin or Greek (if not already taken), French, German, Italian (or such other language<sup>2</sup> as the Senatus Academicus may approve), Dynamics.

Under this sub-section the Senate has approved of (1) Japanese, (2) Spanish, (3) Portuguese, (4) Danish, (5) Turkish, (6) Hebrew, (7) Russian, (8) Serbian, (9) any of the Celtic languages. Any candidate who proposes to be examined in Japanese or Spanish or in any other language than the six mentioned in the Ordinance is required to make

<sup>1</sup> Supplementary Regulations issued by the Joint Board on 31st January, 1918, have been inserted in smaller type at the points in the ordinances to which they are related.

<sup>2</sup> The Joint Board has directed that all examinations in languages approved by the Senatus under this sub-section shall consist of two papers, each of two hours' duration, and shall be drawn up, so far as possible, in accordance with the regulations given on page 240 as regards French and German.

intimation to the Senate before 1st Feb. or 1st July for the Spring and Autumn Examinations respectively.<sup>1</sup>

(2) The examination must be passed in the matters and on the standards hereinafter defined; but there shall be a higher and a lower standard in Latin and in Greek, and a higher, an intermediate, and a lower standard in Mathematics.

Candidates must pass on the higher standard in at least one of these three subjects, and may pass on the lower standard in either or both of the remaining two; subject always to the conditions relative to attendance contained in Section IV. of this Ordinance.

(3) English shall comprise Grammar and Composition, and the outlines of Geography and British History, and the standard shall not be lower than that adopted at the date of the approval of this Ordinance for a pass on the Higher Grade standard at the Leaving Certificate Examination of the Scotch Education Department.

In the case of a student, whose native language is other than English, the standard required in English in the Preliminary Examination shall be such as the Joint-Board of Examiners may deem sufficient.

The Joint-Board has issued the following directions showing the character of the papers to be set in English:—

The Examination shall consist of two papers:—

(a) *The History of the British People.* Two hours. Candidates will be expected to show acquaintance with the social as well as the political history of the British People and the relevant Geography.

About twelve questions will in general be set, of which candidates will be expected to answer six.

(b) *Composition and English Literature.* Two hours. Candidates will be required (a) to write a short Essay, (b) to answer from four to five questions upon subjects derived from a prescribed group of texts; the themes of the Essay will also be based upon the prescribed texts.

One or two of the questions given for choice may be of a grammatical or linguistic character; but the main object of the questions will be to test the candidate's knowledge of the texts themselves and his power of writing English correctly and well.

Two groups of texts will be prescribed in each year, either of which may be selected by a candidate. Group B in each year will become Group A in the subsequent year, and a new Group B will be added yearly.

The prescribed groups of texts for Spring and Autumn, 1918, will be:—Group A.—Shakespeare—*Macbeth*; Milton—*Paradise Lost*, Book I.; Southey—*Life of Nelson*; Wordsworth's Political Sonnets and Poems of the years 1802 to 1810. Group B.—Shakespeare—*Julius Caesar*; Tennyson—*Poems of 1842*; Dryden—*Essay on Dramatic Poesy*; Scott—*Old Mortality*.

The prescribed groups of texts for Spring and Autumn, 1919, will be:—Group A.—Shakespeare—*Julius Caesar*; Tennyson—*Poems of 1842*; Dryden—*Essay on Dramatic Poesy*; Scott—*Old Mortality*. Group B.—Shakespeare—*Henry IV. (First Part)*; Jane Austen—*Pride and Prejudice*; Coleridge—*Ancient Mariner*, *Christabel*, *Kubla Khan*; Macaulay—*Essay on Milton*.

<sup>1</sup> Each applicant for examination in a special subject in the Preliminary Examination shall pay, in addition to the statutory fee for Preliminary Examination, the sum of One Guinea, and should the applicant be successful in passing the examination in the special subject he shall be entitled to recover the sum of One Guinea when he has become a matriculated student of the University, i.e., has entered his name in the Matriculation Album, and has been enrolled in at least one University Class.

[Passes in certain subjects of the Preliminary Examination of the Joint Board are accepted by the General Examining Board of the Chartered Accountants of Scotland.]

[The Society of Incorporated Accountants and Auditors, 50 Gresham Street, London, E.C., accept the Preliminary Examination of the Joint Board in lieu of their own Preliminary Examination.]

(4) Latin and Greek shall comprise grammatical questions, translation into English from Latin or Greek authors not previously prescribed, and translation of plain passages or easy sentences from English into Latin or Greek. The higher standard shall not be lower than that adopted at the date of the approval of this Ordinance for a pass on the Higher Grade standard at the Leaving Certificate Examination of the Scotch Education Department, and the lower standard shall not be lower than that adopted at the said date for a pass on the Lower Grade standard at the Leaving Certificate Examination of the said Department.

In the case of a student whose native language is other than European, the Senatus may accept, as an alternative to Latin or Greek, any other classical language, for example, Sanskrit or Arabic, provided always that the standard of the examination therein shall be as nearly as possible equivalent to the higher standard in Latin or Greek.

In any classical language accepted as an alternative for Latin and Greek, the arrangement of the papers set and the allocation of marks to the different questions will be the same as for the papers in Latin and Greek. The examination, if upon the higher standard, will consist of two papers of two hours each.

The Latin examination on the higher standard will include Translation, Prose Composition, Grammar, and Sentences.

The Greek examination on the higher standard will include Translation, Sentences, an easy passage of continuous Prose, and Grammar.

The passages for translation both from Greek and Latin will include Prose and Verse.

The Latin examination on the lower standard will include Translation and Parsing, Prose Composition, Grammar, and Sentences.

The Greek examination on the lower standard will include Translation, Sentences, and Grammar.

In the Latin and the Greek papers, both on the higher and lower standards, candidates are required to satisfy the Examiners both in Composition and in Translation.

**The attention of Candidates in Classics is called to the fact that the Board has discontinued the practice of granting a Lower Pass on the Higher Greek and Latin Papers. The Lower Paper also must be taken by those who wish to obtain a Lower Pass in the event of failure for a Higher.**

(5) French, German, and Italian shall comprise grammatical, literary, and easy philological questions, translation into English from French, German, or Italian authors not previously prescribed, and translation from English into French, German, or Italian; and the standard shall not be lower than that adopted at the date of the approval of this Ordinance for a pass on the Higher Grade standard at the Leaving Certificate Examination of the Scotch Education Department.

Two papers will be set in French and two in German, two hours being allowed for each; the first paper to contain a passage for translation from English into French or German, and a test in free composition on some easy subject; the second paper to contain two unseen translations into English (one in prose, one in verse), three grammatical, one philological, and one literary question. Of these five questions the candidates will be allowed to choose three.

Literature will comprise a general knowledge of the life and works of at least one of four standard writers (for French literature, two at least from the 19th century, and one at least from the 17th century), with special reference to one particular work by each of them. Two of the authors will be changed from year to year.

The authors prescribed for literary questions in Spring and Autumn, 1918, will be :—

- FRENCH.—Molière, *Le Bourgeois gentilhomme*; B. de Saint Pierre, *Paul et Virginie*; Daudet, *Lettres de mon moulin*; E. About, *Le Roi des Montagnes*.  
 GERMAN.—Goethe, *Hermann und Dorothea*; Lessing, *Minna von Barnhelm*; Heine, *Die Harzreise*; Wildenbruch, *Das edle Blut*.

The authors prescribed for literary questions in Spring and Autumn, 1919, will be :—

- FRENCH.—Molière—*Le Bourgeois gentilhomme*; French Prose from Calvin to Anatole France (Dent), eighteenth century; Lamartine—*Le Tailleur de pierres de Saint-Point* (Macmillan, 1s.); E. About—*Le Roi des Montagnes*.  
 GERMAN.—Heine—*Die Harzreise*; Wildenbruch—*Das edle Blut*; Goethe—*Egmont*; Scheffel—*Ekkehard* (Heath).

(6) Mathematics on the lower standard shall comprise—(a) Arithmetic, including Vulgar and Decimal Fractions, Proportion, Percentage, Square Root, Simple Interest; (b) Algebra, including Fractions, Factors, Square Root, Equations of the First Degree, Simultaneous Equations of the First Degree, Easy Quadratic Equations, Problems leading to the above Equations; (c) Geometry: Euclid, Books I., II., and III. (or their equivalents), with easy deductions. Demonstrations other than Euclid's will be accepted if they assume no propositions which in Euclid's order are subsequent to the proposition under consideration.

(7) Mathematics on the intermediate standard shall, in addition to the subjects comprised in the lower standard, comprise—(a) Euclid: Book VI., Propositions 1—19, or Geometry equivalent thereto. (b) Algebra: Quadratic Equations, Ratio and Proportion. (c) The Trigonometry of Right-angled Triangles.

No candidate can pass on the intermediate standard who either does not, at the same time, pass on the lower standard, or has not previously passed on the lower standard.

(8) Mathematics on the higher standard shall, in addition to the subjects comprised in the lower standard, comprise Euclid, Books IV., VI., and the first twenty-one propositions of Book XI. (or their equivalents), with Deductions, Quadratic Equations, Trigonometry to the Solution of Triangles inclusive, and the use of Logarithmic Tables.

In the examination in Mathematics on the higher and intermediate and on the lower standards each question in Geometry will consist of two parts, of which one will be an easy deduction or illustrative exercise on the proposition set as bookwork.

There will be two papers in Mathematics on the higher and on the intermediate standard. The first paper will consist of questions on Geometry, and on Trigonometry, in the proportion of four-fifths Geometry and one-fifth Trigonometry. The second paper will consist of questions on Algebra (including Arithmetic), and on Trigonometry, in the proportion of four-fifths Algebra and one-fifth Trigonometry, and shall contain two or more questions on Arithmetic, of which one at least shall be taken by all candidates.

Candidates for the higher standard may obtain full marks by doing correctly about two-thirds of the questions set in each subject; but the Examiners will be entitled to reject a candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

The pass-mark for candidates on the intermediate standard is fixed with reference to the total number of marks assigned to questions which fall under the syllabus of the intermediate standard; but such candidates will receive credit for any question they may answer.

The paper in Mathematics on the lower standard will be devoted to the various subjects comprised in as nearly as possible the following proportions: four-ninths to Geometry, three-ninths to Algebra, and two-ninths to Arithmetic.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each subject; but the Examiners will be entitled to reject a candidate who makes in any subject less than a certain minimum of the marks allotted to that subject.

(9) Dynamics shall mean the Elementary Statics and Kinetics of Solids, Liquids, and Gases.

The paper on Dynamics will be directed to test the candidate's knowledge of the fundamental principles of the subjects included in it as defined above. Questions may be set which involve the Trigonometry of right-angled triangles.

Candidates may obtain full marks by doing correctly about two-thirds of the questions set in each section of the paper.

(10) A candidate shall be obliged to pass in all the required subjects at one or not more than two examinations; provided that he may offer himself for re-examination as often as may be necessary to satisfy this condition.

IV. (1) Attendance on any course shall not qualify for graduation, unless the whole Preliminary Examination has been previously passed. But any student who has passed in Latin, Greek, or Mathematics on the higher standard may attend a qualifying course in such subject or subjects without having passed in the other subjects of the Preliminary Examination, provided always that (a) no candidate shall be allowed to present himself for a Degree Examination in any subject until he has passed the whole Preliminary Examination; and (b) no student shall be admitted to a degree in Arts unless he has attended qualifying courses in this University, or partly in this University and partly in another Scottish University (or other University specially recognised by the University Court, after consultation with the Senatus, as provided by Section XXIII. hereof), for three sessions after he has completed his Preliminary Examination.

(2) Attendance on a course in any language included in the Preliminary Examination shall not qualify for graduation, unless the candidate has previously passed the Preliminary Examination in that subject, and on the higher standard where more than one standard is provided. He may, for that purpose, attend any Preliminary Examination held during the course of his study, taking only the paper set in that subject; provided always that the provisions of sub-section (1) immediately preceding shall have been satisfied.

(3) Attendance on a course in any language not included in the Preliminary Examination shall not qualify for graduation, unless the candidate has previously passed an examination in that language on a standard as nearly as possible equivalent to the higher standard of the languages included in the Preliminary Examination.

(4) Attendance on a course of Mathematics or Natural Philosophy shall not qualify for graduation unless the candidate has previously passed in Mathematics on the higher standard or on the intermediate standard.

(5) If a student, before passing the Preliminary Examination, has attended a course qualifying for graduation, the Senatus may, on special cause shown, permit him to count such course as qualifying for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

V. (1) The Preliminary Examination shall be held not oftener than twice in each year,<sup>1</sup> under such regulations as the Senatus, with the approval of the University Court, shall from time to time determine, and shall be conducted in writing; but the regulations may prescribe that with respect to any of the subjects the written examination shall be supplemented by an oral or a practical examination.

(2) The Joint-Board of Examiners appointed under the provisions of Ordinance No. 13, General No. 8 (Regulations as to Examinations) shall have power to accept a Pass on the Higher Grade standard at the Leaving Certificate Examination of the Scotch Education Department in any subject as an equivalent for the Preliminary Examination in that subject; to accept a pass in Science at the Leaving Certificate Examination of the said Department as an equivalent for the Preliminary Examination in the subject of Dynamics; and to accept a pass on the Lower Grade standard at the Leaving Certificate Examination of the said Department as an equivalent for the Preliminary Examination on the lower standard in Latin, Greek, and Mathematics; provided they are satisfied that the standard of the examination, at which the said certificates were granted, is not lower than that required by this ordinance.

Under this sub-section the Joint Board of Examiners has resolved as follows :—

#### SCOTLAND.

##### LEAVING CERTIFICATES OF THE SCOTCH EDUCATION DEPARTMENT.

A pass on the Higher Grade in *Latin*, *Greek*, or *Mathematics* will exempt from Higher Latin, Higher Greek or Higher Mathematics.

A pass on the Higher Grade in *English*, *French*, *German*, *Gaelic* or *Dynamics* will exempt from English, French, German, *Gaelic* or Dynamics.

A pass on the Higher Grade in *Science* will exempt from Dynamics.

A pass on the Lower Grade or in the Intermediate Certificate Examination in *Latin*, *Greek*, or *Mathematics* will exempt from Lower Latin, Lower Greek, or Lower Mathematics, provided that the Scotch Education Department shall have made intimation that the candidate has reached a sufficient standard in these subjects.<sup>2</sup>

The Regulation that all the subjects of the examination shall be passed at one or not more than two examinations shall not be held to apply to the Leaving Certificate Examinations.

(3) The Joint-Board of Examiners shall have power to determine what examinations, if any, other than the Leaving Certificate Examinations of the Scotch Education Department, may be accepted as equivalent

<sup>1</sup> For dates of Preliminary Examinations see Table on page 245.

Candidates who are exempted in any subject or subjects of the Preliminary Examination shall be deemed to have passed the Preliminary Examination when they have passed in the remaining subjects required by Ordinance, provided that all such remaining subjects shall be passed at one or not more than two Preliminary Examinations (Joint Board Regulation).

<sup>2</sup> Passes in individual subjects in the Intermediate Certificate Examination are accepted only under authority for each case from the Scotch Education Department. In this connection candidates are requested to write with full particulars to the Secretary, Scotch Education Department, Edinburgh, asking that intimation be made to the Registrar, The University, Glasgow, as to whether a sufficient standard was reached.

to the Preliminary Examination in whole or in part, provided they are satisfied that such other examinations are in fact equivalent thereto.<sup>1</sup>

Under this sub-section the Joint-Board have agreed to accept the following Examinations as exempting from the Preliminary Examination in Arts and Science, either wholly or in part :—

### I. DEGREES IN ARTS AND SCIENCE.

A Degree in Arts, not being an Honorary Degree, in any of the Universities of the United Kingdom, shall exempt from the Preliminary Examination in Arts; and a Degree in Science, not being an Honorary Degree, in any of the Universities of the United Kingdom, shall exempt from the Preliminary Examination in Science.

[A University Certificate granted by the University of Oxford or by the University of Cambridge to a woman who has fulfilled the ordinary conditions for graduation will be accepted as equivalent to a Degree.]

### ENGLAND.

#### II. OXFORD AND CAMBRIDGE SCHOOLS EXAMINATION BOARD.

##### (1) *Higher Certificate.*

A pass in *Latin* or *Greek* will exempt from Higher Latin or Higher Greek.

A pass in *French* or *German* will exempt from French or German.

A pass in *Mathematics* will exempt from Higher Mathematics and from Dynamics.

A pass in *English* with either *History* or *Geography* will exempt from English.

##### (2) *School Certificate.*

A pass with credit in *Latin* or *Greek* will exempt from Lower Latin or Lower Greek.

A pass with credit in *Elementary Mathematics* will exempt from Lower Mathematics.

A pass with credit in *Additional Mathematics* will exempt from Higher Mathematics.

A pass with credit in *English* with either *History* or *Geography* will exempt from English.

##### (3) *Lower Certificate.*

A pass in the higher of the two classes in *Latin* or *Greek* will exempt from Lower Latin or Lower Greek.

#### III. OXFORD UNIVERSITY LOCAL EXAMINATIONS.

##### (1) *Higher Local Examinations.*

A pass will exempt from all the subjects included in it.

<sup>1</sup> Applications for exemption on the ground of having passed examinations not included in the following list should be addressed to the Convener of the Joint Board. As all the Universities have to be consulted, a decision on a new case cannot be guaranteed in less time than from two to three weeks.

TABLE OF PRELIMINARY EXAMINATIONS, SESSION 1918-19.  
ARTS AND SCIENCE.

Fee. <sup>2</sup>	Names to be given in and Fees paid to the Registrar, <sup>1</sup> The University. Date.	Subject.	Dates of Examinations and Hours at which the various Papers will be set.	
			September, 1918.	March, 1919.
		English (1st Paper), Higher Latin (1st Paper), Lower Latin, English (2nd Paper), Intermediate and Higher Math. (1st Paper), French (1st Paper), Higher Latin (2nd Paper), Intermediate and Higher Math. (2nd Paper), Lower Mathematics Higher Greek (1st Paper), Lower Greek, German (1st Paper), Higher Greek (2nd Paper), French (2nd Paper), Dynamics, German (2nd Paper), Italian (1st Paper), Italian (2nd Paper), Celtic, -	Friday, 13th September, 9 to 11 a.m. Friday, 13th September, 12 noon to 2 p.m. Friday, 13th September, 3 to 6 p.m. Saturday, 14th September, 9 to 11 a.m.  Sat., 14th September, 12 noon to 2 p.m. Saturday, 14th September, 3 to 5 p.m. Monday, 16th September, 9 to 11 a.m.  Monday, 16th September, 12 noon to 2 p.m. Monday, 16th September, 3 to 6 p.m.  Tuesday, 17th September, 9 to 11 a.m. Tuesday, 17th September, 12 noon to 3 p.m. Tuesday, 17th September, 4 to 6 p.m.  Wednesday, 18th September, 9 to 11 a.m. Wed., 18th September, 12 noon to 2 p.m. Wednesday, 18th September, 3 to 6 p.m. Thursday, 19th September, 9 to 11 a.m. Thursday, 19th September, 12 noon to 2 p.m. Thursday, 19th September, 3 to 5 p.m. Fri., 20th Sept., 9 to 11 a.m. & 12 to 2 p.m.	Friday, 14th March, 9 to 11 a.m. Friday, 14th March, 12 noon to 2 p.m. Friday, 14th March, 3 to 6 p.m. Saturday, 15th March, 9 to 11 a.m.  Saturday, 15th March, 12 noon to 2 p.m. Saturday, 15th March, 3 to 5 p.m. Monday, 17th March, 9 to 11 a.m.  Monday, 17th March, 12 noon to 2 p.m. Monday, 17th March, 3 to 6 p.m.  Tuesday, 18th March, 9 to 11 a.m. Tuesday, 18th March, 12 noon to 3 p.m. Tuesday, 18th March, 4 to 6 p.m.  Wednesday, 19th March, 9 to 11 a.m. Wednesday, 19th March, 12 noon to 2 p.m. Wednesday, 19th March, 3 to 6 p.m. Thursday, 20th March, 9 to 11 a.m. Thursday, 20th March, 12 noon to 2 p.m. Thursday, 20th March, 3 to 5 p.m. Friday, 21st Mar., 9 to 11 a.m. & 12 to 2 p.m.

II. MEDICINE.

10s. 6d.	Same as above.	English, - Latin, - French, - Mathematics, - Greek, - German, -	Friday, 13th September, 9 a.m. to 12 noon. Friday, 13th September, 3 to 6 p.m. Saturday, 14th September, 3 to 6 p.m. Monday, 16th September, 3 to 6 p.m. Tuesday, 17th September, 12 noon to 3 p.m. Wednesday, 18th September, 3 to 6 p.m.
10s. 6d.			

<sup>1</sup> For Women Students, Miss Melville, Queen Margaret College.  
<sup>2</sup> As to the fee payable for examination in a special subject, see footnote on page 239.

(2) *Senior Local Examinations.*

Distinction in *Latin* or *Greek* will exempt from Higher Latin or Higher Greek.

Distinction in *French* or *German* will exempt from French or German.

A pass with credit in *Mathematics*, provided that the candidate reaches a sufficient standard in *Trigonometry*, or a pass with credit in *Higher Mathematics*, will exempt from Higher Mathematics.

A pass with credit in *English*, in *History*, and in *Geography*, provided that the candidate obtains distinction in *English*, will exempt from English.

A pass with credit in *Latin* or in *Greek* will exempt from Lower Latin or Lower Greek.

A pass with credit in *Mathematics* will exempt from Lower Mathematics.

(3) *Junior Local Examinations.*

Distinction in *Mathematics*, with a pass in *Arithmetic*, will exempt from Lower Mathematics.

## IV. CAMBRIDGE UNIVERSITY LOCAL EXAMINATIONS.

(1) *Higher Local Examinations.*

A pass will exempt from all the subjects included in it.

(2) *Senior Local Examinations.*

(No pass in these Examinations, obtained in July, 1917, or afterwards, will be accepted, unless the subject is specified on the certificate: i.e., the "standard of recognition" must be reached in each subject.)

Distinction in *Latin* or *Greek* will exempt from Higher Latin or Higher Greek.

Distinction in *French* or *German* will exempt from French or German.

A pass on the "standard of recognition" in *Arithmetic*, *Geometry*, and *Algebra*, with *Trigonometry*, will exempt from Higher Mathematics.

A pass on the "standard of recognition" in *English Composition* and *English Literature* with either *History of England* (or *History of the British Empire*) or *Geography*, will exempt from English.

A pass in *Latin* or *Greek* on the "standard of recognition" in the individual subject will exempt from Lower Latin or Lower Greek.

A pass on the "standard of recognition" in *Arithmetic*, *Geometry*, and *Algebra*, will exempt from Lower Mathematics.

A pass in *French* or *German* on the "standard of recognition" in the individual subject will exempt from French or German.

(3) *Junior Local Examinations.*

Distinction in *Mathematics* will exempt from Lower Mathematics.

## V. LONDON UNIVERSITY EXAMINATIONS.

(1) *Matriculation Examination.*

A pass in *Latin* or *Greek* will exempt from Lower Latin or Lower Greek.

A pass in *Mathematics* will exempt from Lower Mathematics.

A pass in *Mechanics* will exempt from Dynamics.

A candidate who has passed in the Honours or First Division, with *English* as one of the subjects, or has obtained distinction in *English*, will be exempted from further examination in English.

(2) *Intermediate Examination.*

A pass in *Latin* or *Greek* will exempt from Higher Latin or Higher Greek.

A pass in *French* or *German* will exempt from French or German.

A pass in *English* will exempt from English.

A pass in *Mathematics* will exempt from Intermediate and Higher Mathematics.

## VI. UNIVERSITIES OF MANCHESTER, LIVERPOOL, LEEDS, SHEFFIELD, AND BIRMINGHAM.

(1) *Joint Matriculation Examination.*

A pass in *Latin*, *Greek*, or *Mathematics* will exempt from Lower Latin, Lower Greek, or Lower Mathematics.

A pass in Class I. in *English*, *Latin*, *Greek*, *Mathematics*, *French*, or *German*, will exempt from English, Higher Latin, Higher Greek, Higher Mathematics, French, or German.

(2) *Higher Certificate Examination.*

A pass in *English*, provided that it shall include both *English Literature* and *History*, will exempt from English, but one of these may have been taken in the School Certificate Examination.

A pass in *Latin* or *Greek* will exempt from Higher Latin or Higher Greek.

A pass in *Pure Mathematics* or in *Higher Pure Mathematics* will exempt from Higher Mathematics.

A pass in *Applied Mathematics* will exempt from Dynamics.

A pass in *French* or *German* will exempt from French or German.

(3) *School Certificate Examination.*

A pass with credit in *Latin* or *Greek* will exempt from Lower Latin or Lower Greek.

A pass with credit in *Mathematics* will exempt from Lower Mathematics.

## IRELAND.

## VII. INTERMEDIATE EDUCATION BOARD FOR IRELAND.

Honours in *Latin*, *Greek*, or *Mathematics* in the Senior Grade Examination will exempt from Higher Latin, Higher Greek, or Higher Mathematics.

Honours in *French* or *German* will exempt from French or German.

A pass with 55 per cent. of the marks in *English* will exempt from English.

## OVERSEAS DOMINIONS, ETC.

## VIII. THE BRITISH EMPIRE OVERSEAS.

Candidates from British Dominions, Colonies, Dependencies and Protectorates who present evidence that they have passed examinations which would admit them to Universities or to Technical Colleges affiliated to a University in the Dominion, Colony, Dependency or Protectorate from which they come will be exempted from the Preliminary Examination in Arts or Science subject to the following conditions:—

(a) That there is evidence to show that their knowledge of English is sufficient to enable them to follow the courses of instruction with profit.

(b) That, before attending any Class in English, Latin, Greek, French, German, or any other language, they shall have satisfied all the require-

ments laid down by Ordinance or by Regulation of the University for attendance on such classes.

(c) That, before attending any class in Mathematics or Natural Philosophy, they shall have satisfied all the requirements laid down by Ordinance or by Regulation of the University for attendance on such classes.

(d) That candidates for degrees in Engineering shall produce evidence of a knowledge of Mathematics equivalent to that required in Higher Mathematics in the Preliminary Examination.

*Note.*—In the case of candidates from India applying for exemption from the Preliminary Examination in Engineering the Joint Board will accept as evidence of a sufficient knowledge of Mathematics a satisfactory pass in the Intermediate Examination of any of the Indian Universities. A note of the marks obtained in this examination by the applicant must be communicated to the Convener of the Board.

The Final Examination for Degree in Engineering of the College of Science, Poona, will be accepted as exempting from the Preliminary Examination in Science (Engineering).

*N.B.*—*In and after the academical year 1919-20, in the case of candidates whose native language is other than English, this exemption will not include English. The above candidates, and all other candidates whose native language is other than English, will be required to pass an examination in English designed to test their ability to understand and use the language sufficiently for the purpose of study at a Scottish University.*

## FOREIGN COUNTRIES.

### IX. FRANCE.

The Baccalauréat-ès-Lettres and the Baccalauréat-ès-Sciences will exempt from the Arts and Science Preliminary Examinations respectively.

### X. OTHER EUROPEAN COUNTRIES.

Certificates of Maturity or Grades similar to the French Baccalauréat which would entitle the holder to enter upon a regular course of study in the Universities of his own country will exempt from the Preliminary Examination in Arts and Science.

### XI. MISCELLANEOUS.

Argentine Certificates giving admission to the University of Buenos Aires will be accepted.

The Examinations comprised in the Arts Curriculum of the St. John's University, Shanghai, taken and passed by Graduates in Arts (B.A.) of that University, will be accepted.

The First Class Certificates of the Anglo-Chinese College, Amoy, will be accepted.

The Egyptian Secondary Education Certificate will be accepted for the Arts Preliminary Examination if it includes Arabic, English, French and Mathematics, and for the Science Preliminary Examination if it includes Arabic, English and Mathematics.

*Candidates who are exempted in any subject or subjects of the Preliminary Examination shall be deemed to have passed the Preliminary*

*Examination when they have passed in the remaining subjects required by Ordinance, Provided that all such remaining subjects shall be passed at one or not more than two Preliminary Examinations.*

## ORDINARY DEGREE.

VI. The Curriculum for the Ordinary Degree of Master of Arts shall consist either of five or of six subjects, which shall be studied by attendance on qualifying courses therein.

When a Curriculum of five subjects is chosen, two of these subjects shall each be studied by attendance during two sessions on qualifying courses therein, and the Degree Examinations in these two subjects shall be on a higher standard than the Degree Examinations in the other three subjects.

When a Curriculum of six subjects is chosen, one of the subjects shall be studied by attendance during two sessions on qualifying courses therein, and the Degree Examination in that subject shall be on a higher standard than the Degree Examinations in the other five subjects; and of these five subjects two shall be cognate subjects, and shall be studied by attendance in separate sessions on qualifying courses therein.

The Senate has directed that the names of the subjects which under this section can be studied by attendance during two sessions should be printed in **CAPITALS** in Section VIII.

The Senate has further directed that for the purposes of this section the following shall be deemed Cognate Subjects:—

Latin and Greek.	Logic,	} any two.
Latin and French.	Moral Philosophy,	
Latin and Italian.	English,	
Latin and Celtic.	Logic and Political Economy.	
Latin and Roman Law.	Moral Philosophy and Political Economy.	
French and Italian.	History and English.	
French and German.	History and Constitutional Law and History.	
Hebrew and Arabic.	History and Political Economy.	
Mathematics,	History and Geography.	
Natural Philosophy,	History, and Scottish History and Literature.	
Chemistry,	Scottish History and Literature, and English.	
Mathematics and Astronomy.	Scottish History and Literature, and Constitutional Law and History.	
Botany,	Scottish History and Literature, and Political Economy.	
Zoology,	Scottish History and Literature, and Geography.	
Geology,		
Geography,		
Logic,		
Moral Philosophy,		
Education,		

No combination of subjects, other than the above-mentioned, shall be recognised as cognate, unless the Senatus shall in the case of any particular candidate, and on special cause shown, have permitted the selection of a different combination; and in every such case the

Senatus shall make a report to the University Court setting forth the reasons for such permission.

VII. (1) A qualifying course in each subject shall consist of not less than 75 meetings of the full class on separate days, with additional meetings for tutorial or other supplementary instruction; except in cases (a) where the Senatus, with the approval of the University Court, shall have sanctioned half-courses of not less than 40 meetings of the full class on separate days, with additional meetings for tutorial or other supplementary instruction; or (b) where the Senatus, with the approval of the University Court, having regard to the nature of the subject, shall have sanctioned qualifying courses of less than 75 meetings of the full class, or half-courses of less than 40 meetings of the full class, respectively, with additional meetings for tutorial or other supplementary instruction.

(2) Two half-courses so sanctioned, either in one subject or in two cognate subjects, or a qualifying Honours Course as hereinafter defined, shall be held to be equivalent to a qualifying course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose by the same authority.

(3) Where a subject is taught in a practical class, as well as in a systematic class, the Senatus, with the approval of the University Court, shall regulate the course of study and determine the relative proportion of lectures and laboratory or practical work.

VIII. The Departments of Study for graduation in Arts shall include the following subjects, with such additions thereto or modifications therein as may hereafter be made by the Senatus, with the approval of the University Court; provided always that no subject shall be included unless a qualifying course shall have been established therein:—

#### 1. LANGUAGE AND LITERATURE.

LATIN.	FRENCH.	HEBREW.
GREEK.	GERMAN.	ARABIC.
ENGLISH.	ITALIAN.	CELTIC.
		RUSSIAN.

#### 2. SCIENCE.

MATHEMATICS.	Zoology.
NATURAL PHILOSOPHY.	Botany.
Astronomy.	Geology.
Chemistry.	Geography.

#### 3. MENTAL PHILOSOPHY.

LOGIC AND METAPHYSICS.	POLITICAL ECONOMY.
MORAL PHILOSOPHY.	Education.

#### 4. HISTORY AND LAW.

HISTORY.	CONSTITUTIONAL LAW AND HISTORY.	Roman Law.
	SCOTTISH HISTORY AND LITERATURE.	

N.B.—The New Arts Ordinance reproduced the list of Subjects contained in Ord. No. 11. The list given above is a modification made by the Senate.

IX. The Senatus, with the approval of the University Court, shall have power to make from time to time Regulations regarding the definition and grouping of the subjects in the several Departments of Study, their selection for the Curriculum, their classification as cognate, and the order in which they are to be studied, and also regarding the standards of the Degree Examinations and the conditions of admission thereto.

#### REGULATIONS.

A. The Senate have made the following regulations in regard to Curricula and the Order of Study :—

#### CURRICULUM.

I. Every candidate for a Degree in Arts shall select one of the following curricula—

(1) One subject from each of the following pairs—

Latin or Greek.

Mathematics or Natural Philosophy.

Logic or Moral Philosophy.

Apart from these limitations the student may select his remaining subjects from those enumerated in Section VIII.

or (2) Both Mathematics and Natural Philosophy, together with one subject from each of the following groups—

Logic or Moral Philosophy.

French or German or Italian or Hebrew or Arabic or Celtic or Russian.

Apart from these limitations the student may select his remaining subject or subjects from those enumerated in Section VIII.

or (3) Any two of the following languages—Latin, Greek, French, German, Italian, Hebrew, Arabic, Celtic, Russian, together with one subject from each of the following groups—

Logic or Moral Philosophy.

Chemistry or Zoology or Botany or Geology or Geography.

Apart from these limitations the student may select his remaining subject or subjects from those enumerated in Section VIII.

or (4) History, with one of the following subjects—

Political Economy or

Constitutional Law and History or

Scottish History and Literature ;

together with one subject from each of the following groups—

Latin or Greek or French or German or Italian or Russian.

Mathematics or Natural Philosophy or Astronomy or

Chemistry or Zoology or Botany or Geology or Geography.

Logic or Moral Philosophy.

Apart from these limitations the student may select his remaining subject from those enumerated in Section VIII.

*M.A. with special reference to Citizenship.*

Candidates desiring a degree in Arts with special reference to Citizenship are advised to take the following curriculum: *First Year*—(a) English, (b) another Language and Literature; *Second Year*—(c) a Science, (d) History; *Third Year*—(e) Ethics of Individual and Social Life, (f) Political Economy.

II. Not more than three languages other than English, and not more than two double courses or three single courses in the department of Science are to be included in any Curriculum.

Not more than two double courses or three single courses in the group—History, Political Economy, Constitutional Law and History, Scottish History and Literature—are to be included in any Curriculum.

## ORDER OF STUDY.

The following rules shall be observed—

1. Roman Law shall be preceded by at least one course in Latin.
2. Education shall be preceded by or taken concurrently with a course in either Logic or Moral Philosophy.
3. Astronomy shall be preceded by at least one course in Mathematics.
4. Scottish History and Literature shall be preceded by, or accompanied by, a course in History.

B. The Senate have made the following regulation:

In the Ordinary Classes of Greek and Latin the results of Class examinations conducted under Degree-examination conditions may be counted for the Ordinary Degree; and any candidate who shall satisfy the Degree Examiners at a Class Examination so conducted may reckon such a pass as giving exemption *pro tanto* from the Prescribed Books Sections of the Ordinary Degree Examinations.

C. The Senate have made the following regulation:

Any Master of Arts may be admitted to examination in one or more of the subjects enumerated in Section VIII., and should he attain therein the standard required of candidates for the Ordinary Degree of Master of Arts he shall be entitled to receive a certificate to that effect.<sup>1</sup>

X. The University Court shall communicate to the General Council all additions and modifications relating to the Departments of Study, and all Regulations, made by the Senatus in pursuance of Sections VIII. or IX. hereof; and any representation made thereon by the General Council within two months from the date of such communication shall be taken into consideration by the University Court before any such addition, modification, or Regulation is approved.

<sup>1</sup> Candidates must have attended qualifying classes in the proposed subjects of examination, and must present the same certificates as are required in Section XXII. of this Ordinance. The Examination Fee for each subject is One Guinea. Candidates are required to enter their names and to pay this fee not later than the dates applicable in these respects to the Arts Degree Examinations.

XI. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary Examinations and paid the required fees, shall be entitled to receive the ordinary Degree of Master of Arts.

XII. For the ordinary Degree of Master of Arts the graduate shall receive a Diploma, wherein shall be set forth the subjects in which he has passed.

#### DEGREE WITH HONOURS.

XIII. (1) The Degree of Master of Arts may be taken with Honours in one or more recognised Groups of subjects.

(2) The recognised Groups of subjects for graduation in Arts with Honours shall be the following, with such additions thereto or modifications therein as may hereafter be made by the Senatus, with the approval of the University Court; provided always that no Group shall be recognised unless qualifying Honours courses, conducted by separate Professors or Lecturers, shall have been established in at least two of the subjects thereof :

(a) Classics [i.e. Latin and Greek with optional subjects such as Comparative Philology, Ancient Philosophy, Ancient History, and Classical Archaeology].

(b) Philosophy [i.e. Logic, Moral Philosophy, English Literature : any two of these].

(c) Mathematics and Natural Philosophy [i.e. Pure Mathematics, Natural Philosophy, Astronomy : any two of these].

(d) English [i.e. English Literature, with Language and History as subsidiary subjects].

(e) History [i.e. General European History and British History, Constitutional and Political].

(f) Economics [i.e. Political Economy, with *either* Logic, *or* Moral Philosophy, *or* History].<sup>1</sup>

(g) French and German (Language and Literature).

(h) French, Italian, Latin (Language and Literature) : any two of these.

(i) Germanic Language [i.e. German Language and Literature, with English Language].

(j) Celtic Language and Literature [i.e. Ancient and Modern Celtic, with Latin].

(k) Semitic Language and Literature [i.e. Hebrew and Arabic].

N.B.—The new Arts Ordinance reproduced the list of Groups contained in Ord. No. 11. The list given above is a modification made by the Senate.

(3) The Senatus, with the approval of the University Court, shall have power to make from time to time Regulations regarding the definition and grouping of the subjects in the several recognised Groups, their selection for the Curriculum, their classification as cognate, and the order in which they are to be studied, and also

<sup>1</sup> See "Economic Science," page 278.

regarding the standard of the Honours Examinations and the conditions of admission thereto; provided always that the following conditions are observed:

(a) That a candidate for Honours in one Group shall be required to attend four qualifying courses in the subjects of his Group (of which two shall be Honours courses conducted by separate Professors or Lecturers), and also to attend qualifying courses in two subjects other than those of his Group.

(b) That a candidate for Honours in two Groups which include a subject common to both shall not be required to attend qualifying courses in more than one subject other than those of his Groups;

(c) That a candidate for Honours in two Groups which include no subject common to both shall not be required to attend qualifying courses in any subject other than those of his Groups.

(4) The Degree Examinations in the subjects included in the candidate's Group or Groups shall be of the Honours standard, and in the other subjects or subject (if any) shall be of the standard required for the ordinary Degree.

Under this Section XIII. the Senate in 1909, besides modifying the Groups, made the following Regulations:

A. A candidate may present himself for the Honours Examination in any group at any time after he has attended the required courses of study in the subjects of his group, whether he has already graduated in Arts or not; but he shall not present himself a second time for examination in the same group except with leave of the Senatus on special cause shown.

B. No combination of subjects, other than the above-mentioned groups, shall be recognised as an Honours Group, unless the Senatus shall in the case of any particular candidate, and on special cause shown, have permitted the selection of a different combination; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for such permission.

C. The subjects, other than those of his group, in which a candidate is required to attend qualifying courses, may be selected from any of the departments of study for graduation in Arts: provided that a candidate for Honours in group (c) shall be required to select those subjects from a department or departments other than that of Science.

#### D. TEMPORARY PROVISION.

Any Graduate of the University who graduated before the first day of October, 1909, may, with the permission of the Senatus, be admitted to examination in one or more of the subjects of an Honours Group; and should he attain therein the standard required of candidates for Honours, he shall be entitled to receive a Certificate of Proficiency in that subject or subjects, but his name shall not be placed in any Class.<sup>1</sup>

<sup>1</sup> The Examination Fee for a Certificate of Proficiency, payable on each occasion of entry, is Two Guineas. Candidates are required to enter their names and to pay this fee not later than the date applicable in these respects to the Honours Examinations.

XIV. (1) A qualifying Honours course in each subject shall consist of not less than 50 meetings of the full class, to be held on separate days during two or more terms.

(2) The Senatus, with the approval of the University Court, shall have power to sanction half-courses for Honours in any subject. A half-course shall consist of not less than 25 meetings of the full class, to be held on separate days during one or more terms; and two half-courses so sanctioned, either in one subject or in two cognate subjects, shall be held to be equivalent to a qualifying Honours course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose by the same authority.

(3) Where a subject is taught in a practical class, as well as in a systematic class, the Senatus, with the approval of the University Court, shall regulate the course of study and determine the relative proportion of lectures and laboratory or practical work.

XV. The University Court shall communicate to the General Council all additions and modifications relating to the recognised groups of subjects for Honours, and all regulations, made by the Senatus in pursuance of Section XIII. subsections (2) and (3) hereof; and any representation made thereon by the General Council within two months of the date of such communication shall be taken into consideration by the University Court before any such addition, modification, or regulation is approved.

XVI. (1) In each Group there shall be three grades of Honours, to be denominated respectively the First, the Second, and the Third Class. The names of the candidates entitled to Honours in each class shall be arranged in alphabetical order.

(2) For the Degree of Master of Arts with Honours, the graduate shall receive a Diploma wherein shall be set forth the subjects in which he has passed with Honours, and those (if any) in which he has passed on the standard required for the ordinary Degree.

(3) A candidate for the Degree of Master of Arts with Honours who has failed to be placed in any Class shall, provided that in the opinion of the Examiners he has given evidence of sufficient attainments in any subject for the ordinary Degree of Master of Arts, receive from them a certificate that he has passed in such subject, which certificate shall entitle him to exemption *pro tanto* from the corresponding part of the Examination required for the ordinary Degree of Master of Arts.

#### BOARDS OF STUDIES.

XVII. The Senatus shall from time to time institute Boards of Studies corresponding in general to the several Departments of Study, or to any two or more of such Departments.

XVIII. Each Board of Studies shall consist of such Members of the Senatus and Lecturers in the University as the Senatus may from time to time select, and the Senatus shall appoint one of the Members of the Board to be Convener thereof.

XIX. Before the end of each session each Professor and Lecturer in each of the several Departments of Study shall submit to the proper Board of Studies for its approval a syllabus of the subjects and books proposed for the work of his classes and also a syllabus of the subjects and books to be prescribed for the Examinations for the ordinary Degree in the next academical year, and a syllabus of the subjects and books to be prescribed for the Examinations for the Honours Degree in the academical year next but one. As soon as such approval has been given, each syllabus shall be transmitted to the Faculty of Arts for its consideration. Each syllabus, with such observations as the Faculty of Arts may see fit to make thereon, shall then be transmitted to the Senatus for its sanction.

XX. Before the end of each session each Board of Studies shall prepare a scheme defining, for the academical year next but one following, the courses which shall be recognised as Honours courses, and the subjects and courses of reading for Honours in its Department or Departments, and shall report the same to the Faculty of Arts for its consideration. Each scheme, with such observations as the Faculty of Arts may see fit to make thereon, shall then be transmitted to the Senatus for its sanction.

XXI. The Principal and the Dean of the Faculty of Arts shall be *ex officio* Members of each Board of Studies. The Convener shall preside if present, and in his absence each meeting shall appoint its own Chairman; and the Convener or Chairman, as the case may be, shall have a deliberative and, in cases of equality, a casting vote.

#### GENERAL.

XXII. A candidate for the Degree of Master of Arts shall not be deemed to have attended a qualifying course as part of the Curriculum for that Degree who does not present a certificate bearing not only that he has regularly attended the class, but also that he has duly performed the work thereof.<sup>1</sup>

XXIII. A student, who has given attendance at courses recognised as qualifying for graduation during one or more sessions in any one or more of the Scottish Universities, may complete his Curriculum by giving attendance during the remainder of his course in the University of Glasgow, and may proceed to a Degree in that University in the same way, in all respects, as if the previous part of his Curriculum had been taken therein: provided always that no such student shall be admitted to a Degree in the University of Glasgow unless he has given attendance on qualifying courses therein during the last session of his Curriculum. Further, the

<sup>1</sup>Class Tickets in the Faculty of Arts (Three Term Session).—The Senate at a meeting on 29th April, 1909, resolved that, unless by the permission of the Senate given on consideration of the special case, a student shall not receive for any class a ticket or certificate of attendance if he or she has been absent altogether for more than six weeks out of the twenty-five weeks of the teaching period in Arts or for more than three weeks in any one term, even though a medical certificate of illness shall have been produced for the time or times of absence.

Senatus may accept, under such conditions as they may from time to time prescribe, attendance given and Examinations passed at other Universities specially recognised by the University Court, after consultation with the Senatus; provided always that every student, whose attendance or Examinations are thus accepted, shall attend qualifying courses for at least two sessions<sup>1</sup> in the University of Glasgow, and shall pass the Degree Examinations of the University in the subjects so studied.

XXIV. The Degree of Master of Arts shall in no case be conferred on students who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum*.

But the Senatus shall have power to admit (*ad eundem gradum*) to the Degree of Master of Arts, and to all the privileges thereof, any person who has already received that degree from another University, provided that he is of distinguished merit or has been appointed to an academic office in the University of Glasgow.

XXV. Students may attend any classes without having passed the Preliminary Examination within the meaning of this Ordinance, but such attendance shall not qualify for graduation.

XXVI. From and after the date at which this Ordinance comes into operation Ordinances numbered 12, 14, 18 and 69 of the Commissioners under the Universities (Scotland) Act, 1858, as altered under the provisions of the said Act, and Ordinances numbered 11, 44, 148, 160, and 168, all of the Commissioners appointed under the Universities (Scotland) Act, 1889, and Ordinance General No. 1 of the University Courts of the Scottish Universities are hereby repealed as regards the University of Glasgow in so far as they are inconsistent with this Ordinance, and any references made in existing Ordinances applicable to the University of Glasgow to the said repealed Ordinances shall be deemed to refer to this Ordinance and the corresponding sections and subsections thereof; provided always that a student who, at the date at which this Ordinance comes into operation, has already commenced his course of study with a view to graduation in Arts in the University of Glasgow under the regulations in force at the time in that University, may complete his course and become a candidate for the Degree of Master of Arts, with or without Honours, in conformity with such regulations.

XXVII. This Ordinance shall come into operation at the beginning of the academical year next following that in which it is approved by His Majesty in Council.

[Approved on 5th May, 1908.]

<sup>1</sup> Defined by the Senate on 3rd June, 1909, to mean that the Candidate must attend not fewer than two courses in each of the two sessions in the University of Glasgow.

SYLLABUS OF EXAMINATIONS FOR THE ORDINARY DEGREE OF MASTER OF ARTS  
ACCORDING AS THE CANDIDATES HAVE STUDIED A SUBJECT FOR ONE OR TWO  
SESSIONS.

IN	SINGLE-COURSE STUDENTS.	DOUBLE-COURSE STUDENTS.
LATIN	<p>The Examination will comprise four papers, each of two hours, viz.:</p> <p>I. Unprepared Translation.</p> <p>II. General Paper on History, Antiquities, Latin Language and Literature, with especial reference to the subject matter of the Prescribed Books.</p> <p>III.* Prescribed Books.</p> <p>IV. <i>Either</i> Latin Prose Composition, <i>or</i>, as a subject to be offered in substitution thereof, Roman Britain.</p> <p>* <i>Schedule</i> :</p> <p>II. The textbook recognized for Roman History is How and Leigh's <i>History of Rome</i>. The period prescribed is from B.C. 202 to A.D. 37.</p> <p>III.</p> <p>October, 1918.</p> <p>1. TERENCE, <i>Autontimorumenos</i>.  2. CICERO, <i>pro Caelio</i>. } With G. Boissier's <i>Cicéron</i>  3. CATULLUS (Selection) } <i>et ses amis</i>.  4. PLINY'S Letters (Merrill's Selection).  5. APULEIUS, <i>Cupid and Psyche</i> (Purser's edition)  <i>or</i>  PHAEDRUS, <i>Fables</i> (Havet's smaller edition).</p> <p>May and October, 1919.</p> <p>1. PLAUTUS, <i>Captivi</i>.  2. TERENCE, <i>Phormio</i>.  3. VIRGIL, <i>Georg.</i>, III.  4. TACITUS, <i>Annals</i>, I.  5. APULEIUS, <i>Cupid and Psyche</i> (Purser's edition).</p> <p>IV. For the subject of ROMAN BRITAIN the following is prescribed :  text and subject matter of Caesar <i>Bellum Gallicum</i>, IV. 20 to V. 24, and  of Tacitus, <i>Agrioola</i> ; and a general knowledge of the Roman Occupa-  tion, with especial regard to Scotland.  Candidates should apply to the Lecturer in Roman History for a list  of books recommended for study.</p>	<p>(See next page.)</p>

IN	DOUBLE-COURSE STUDENTS.	
	Either LANGUAGE AND LITERATURE.	Or, ROMAN HISTORY AND ANTIQUITIES.
LATIN	<p>1. Prose Composition.</p> <p>2. Unprepared Translation.</p> <p>3. General Paper in History, Antiquities, Literature, etc., with special reference to the Named Authors.</p> <p>4.* Prescribed Books (Translation).</p> <p>5. (Questions).</p> <p>6.† Named Authors (Translation).</p> <p>* Viz.: VIRGIL, <i>Eclagues and Georgics</i>. HORACE, <i>Satires, Epistles</i>, and <i>Arts Poetica</i>. PLAUTUS, <i>Capivi</i>. CICERO, <i>Tusculan Disputations</i>.</p> <p>† TERENCE. CATULLUS with TIBULLUS, I., II., and PROPERTIUS, III., IV. CICERO, <i>Orations only</i> or QUINTILIAN.</p> <p>Candidates will only be required to translate, not to explain, the passages from Named Authors. They will be expected to have sufficient general knowledge of these authors to be able to translate an average, not an exceptionally difficult, passage.</p>	<p>i. Unprepared Translation.</p> <p>ii. General Roman History, Geography and Antiquities.</p> <p>iii. A special period to be studied in prescribed texts.*</p> <p>iv. Roman Military and Provincial Administration with special reference to Gaul, Germany, and Britain.†</p> <p>v. Prescribed Texts (Translation).</p> <p>* The following periods are prescribed in alternate years:</p> <p>A. From the Battle of Actium to the death of Nero (31 B.C. to 68 A.D.).</p> <p>Prescribed Texts: Suetonius, <i>Augustus</i> with the <i>Monumentum Ancyranum</i>. Tacitus, <i>Annals</i>, I. and XI.-XVI. Selected Inscriptions.</p> <p>B. From the death of Nero to the death of Marcus Aurelius (A.D. 68 to 180).</p> <p>Prescribed Texts: Tacitus, <i>Histories</i> and <i>Agricola</i>. Suetonius, <i>Lives of Vespasian and Domitian</i>. Pliny, selected <i>Letters</i>. Selected Inscriptions.</p> <p>For 1919 Period B is prescribed for candidates for the Higher Ordinary Degree in Latin. Candidates for Honours in Latin or in History may select either period.</p> <p>† Prescribed documents: Tacitus, <i>Agricola</i>. Pliny, <i>Correspondence with Trajan</i>. Selected Inscriptions. The Roman Collection in the Hun- terian Museum.<sup>1</sup></p> <p><sup>1</sup> This part of the examination will be conducted <i>à la voce</i>.</p>

IN	SINGLE-COURSE STUDENTS.	DOUBLE-COURSE STUDENTS.
GREEK	<p>Prose Composition. Unprepared Translation. Translation of Prescribed Books. Questions on Prescribed Books and on Bury's <i>History of Greece</i>, Grammar, etc. The Prescribed Books are :—</p> <p>1918.</p> <p>HOMER, <i>Iliad</i>, VIII.-IX. EURIPIDES, <i>Andromache</i>. ARISTOPHANES, <i>Clouds</i>. PLATO, <i>Apology</i>. ISOCRATES, <i>Panegyricus</i>.</p> <p>1919.</p> <p>HOMER, <i>Iliad</i>, V., VI. HERODOTUS, IX. AESCHYLUS, <i>Prometheus Vinculus</i>. ARISTOPHANES, <i>Peace</i>. PLATO, <i>Laches</i> and <i>Charmides</i>.</p>	<p><i>Either LANGUAGE AND LITERATURE—</i></p> <p>Prose Composition. Unprepared Translation. Translation of Prescribed Books. Questions on Prescribed Books and on History, Literature, etc. The Prescribed Books are :—</p> <p>1918.</p> <p>HOMER, <i>Odyssey</i>, XXI.-XXIII. ARISTOPHANES, <i>Knights</i>. THUCYDIDES, I. DEMOSTHENES, <i>Androtion</i>. HYPEREIDES.</p> <p>1919.</p> <p>HOMER, <i>Odyssey</i>, I.-III. ARISTOPHANES, <i>Frogs</i>. CALLIMACHUS, <i>Hymns</i>, II., IV., V., and <i>Epigrams</i>. ANACREON, <i>de Mysteriis</i> and <i>de Reditu</i>. ARISTOTLE, <i>Ethics</i>, II. and X.</p> <p>Or GREEK HISTORY AND ARCHAEOLOGY. } See next page. Or HELLENISTIC GREEK.</p>

IN	DOUBLE-COURSE STUDENTS.	
GREEK	Or GREEK HISTORY AND ARCHAEOLOGY.	Or HELLENISTIC GREEK.
	<p>1919.</p> <p>Text Books: Bury, <i>History of Greece</i>; Greenidge, <i>Hand-book to Greek Constitutional History</i>.</p> <p>Prescribed Texts:</p> <p>THUCYDIDES, I., 31-44, 66-88, 118-125, 139-146; II., 34-46, 59-65; III., 8-19, 25-50.</p> <p>ARISTOPHANES, <i>Acharnians</i>.</p> <p>PLUTARCH, <i>Life of Pericles</i>.</p> <p>Selected Inscriptions.</p> <p>Candidates are further recommended to read Myres, <i>The Dawn of History</i> (Home University Library); Hogarth, <i>Ionian and the East</i>; Grundy, <i>The Great Persian War</i>; How and Wells, <i>A Commentary on Herodotus</i>; Zimmern, <i>The Greek Commonwealth</i>.</p>	<p>1919.</p> <p>Acts of the Apostles. Epistle to the Hebrews. Justin Martyr, <i>Apology</i>. Aelian, <i>Varia Historia</i>. Lucian, <i>Timon and Menippus</i>. Phrynichus and Moeris. Griechische Papyri (Lietzmann's Kleine Texte). Milligan's Selections from the Papyri. The Class Lectures on Hellenistic Language, Literature and Philosophy.</p>

IN	SINGLE-COURSE STUDENTS.	DOUBLE-COURSE STUDENTS.
ENGLISH LITERATURE	<p><b>October, 1918.</b></p> <p>The subjects prescribed for study in the class. See Syllabus prescribed for 1917-18.</p> <p><b>May and October, 1919.</b></p> <p>The subjects prescribed for study in the class. See p. 92.</p> <p>Students are advised to present themselves at the May or the October examination immediately following their Course, as the subjects studied in the class will be changed from year to year.</p>	<p><b>October, 1918.</b></p> <p>The subjects prescribed for study in the class. See Syllabus for 1917-18.</p> <p><b>May and October, 1919.</b></p> <p>The subjects prescribed for study in the class (see p. 92).</p> <p>or</p> <p>(if the student has attended the <i>Language</i> Class (see p. 93).</p> <p><b>1918 and 1919.</b></p> <p>I. General History of English Language, with special reference to the development of Standard English.</p> <p>II. Grammar of Old and Middle English, with special reference to the texts read.</p> <p>III. Translation of specified texts* in Old and Middle English. A passage or passages of easy Old English prose may be set for sight translation.</p> <p>* I. Sweet: <i>Anglo-Saxon Reader</i>, I-XVIII, XXI-XXIII.</p> <p>II. (a) O. F. Emerson: <i>Middle English Reader</i>. (b) <i>Havelok the Dane</i>. (c) Chaucer, <i>Prologue</i> and <i>Knight's Tale</i>.</p>

IN	SINGLE-COURSE STUDENTS.	DOUBLE-COURSE STUDENTS.
FRENCH	<p>I. Unseen Translation and Prose Composition.</p> <p>II. Questions on Language, Historical Grammar, and Versification, with special reference to the prescribed books and French Syntax. (See p. 95.)</p> <p>III. Essay in French on the subjects of the Class Lectures.</p> <p>IV. Oral Examination.—(a) Reading and explanation of a passage taken from the prescribed books. (b) Conversation in French on the subjects of the Class Lectures. (See p. 95.)</p>	<p>I. Unseen Translation and Prose Composition.</p> <p>II. Questions on Language, Historical Grammar, and Versification, with special reference to the prescribed books. (Morphology of the French Language and Semantics; see p. 95.)</p> <p>III. History of French Literature, 1600-1900.</p> <p>IV. Essay in French on the subjects of the Class Lectures. (See p. 95.)</p> <p>V. Oral Examination.—(a) Reading and explanation of a passage taken from the prescribed books. (b) Conversation in French on the subjects of the Class Lectures. (See p. 95.)</p>
	<p>1919.</p> <p>(a) Seventeenth Century :  Cornille, <i>Horace</i>.  Racine, <i>Andromaque</i>.  Molière, <i>Les Femmes Savantes</i>.  La Fontaine, <i>Fables</i>.  La Bruyère, <i>Caractères</i>.</p> <p>(b) Nineteenth Century :  Auzas, <i>Poètes français du XIX<sup>e</sup> siècle</i> (Oxford Press).  Musset, <i>Où ne badine pas avec l'amour</i>.  V. Hugo, <i>Notre Dame de Paris</i>.  Balzac, <i>Eugénie Grandet</i>.  Flaubert, <i>Salammbo</i>.  Loti, <i>Pêcheurs d'Islande</i>.</p> <p>(c) History (texts as prescribed during Term).</p>	<p>1919.</p> <p>(a) Early Period :  Ronsard et les Poètes de la Pléiade (Gowans &amp; Gray).</p> <p>(b) Seventeenth Century :  Cornille, especially <i>Horace</i>.  Racine, especially <i>Andromaque</i>, <i>Britannicus</i>.  Molière, especially <i>Les Précieuses Ridicules</i>, <i>Les Femmes Savantes</i>.  La Bruyère, <i>Caractères</i>.</p> <p>(c) Nineteenth Century :  Musset, <i>Poésies</i> (Gowans &amp; Gray).  V. Hugo, <i>Hernani</i>, <i>Notre Dame de Paris</i>.  Balzac, <i>Le Père Goriot</i>.  Loti, <i>Pêcheurs d'Islande</i>.  d'Avenel, <i>Les Français de mon Temps</i> (Nelson).</p>

IN	SINGLE-COURSE STUDENTS.	DOUBLE-COURSE STUDENTS.
GERMAN	<p><b>October, 1918.</b></p> <ol style="list-style-type: none"> <li>(1) Unseen Translation and Prose Composition.</li> <li>(2) History of the German Language.</li> <li>(3) (a) General Outline of German Literature.</li> <li>     (b) German Literature of the 19th cent.</li> <li>(4) Eichendorff, <i>Aus dem Leben eines Taugenichts</i>; Kleist, <i>Prinz von Homburg</i>; Uhland, <i>Gedichte</i>; Grillparzer, <i>Sappho</i>; Heine, <i>Harzreise, Gedichte</i>; Heibel, <i>Agnes Bernauer</i>; Selections from the Lyric and the Ballad; Lessing, <i>Nathan</i>; Schiller, <i>Wilhelm Tell, Braut von Messina</i>; Goethe, <i>Gedichte, Tasso</i>.</li> <li>(5) Oral examination.</li> </ol>	<p><b>October, 1918.</b></p> <ol style="list-style-type: none"> <li>(1) Unseen Translation and Prose Composition.</li> <li>(2) Historical German Grammar.</li> <li>(3) General Outline of German Literature, with special knowledge of period 1745-1832, and of the German novel.</li> <li>(4) Selections from the German novel, lyric, and ballad.</li> <li>(5) Middle High German.</li> <li>(6) Oral Examination.</li> </ol>
	<p><b>1919.</b></p> <ol style="list-style-type: none"> <li>(1) Unseen Translation and Prose Composition.</li> <li>(2) History of the German Language.</li> <li>(3) (a) General Outline of German Literature.</li> <li>     (b) German Literature, 1745-1832.</li> <li>(4) Lessing, <i>Minna, Nathan</i>; Goethe, <i>Gedichte, Göt, Tasso</i>; <i>Dichtung und Wahrheit</i>; Schiller, <i>Gedichte, Jungfrau von Orléans, Wallenstein, Braut von Messina</i>; Schiller and Goethe Correspondence.</li> <li>(5) Oral Examination.</li> </ol>	<p><b>1919.</b></p> <ol style="list-style-type: none"> <li>(1) Unseen Translation and Prose Composition.</li> <li>(2) Historical German Grammar.</li> <li>(3) General Outline of German Literature, with special knowledge of period 1745-1832, and of German drama.</li> <li>(4) Selections from the German drama.</li> <li>(5) Middle High German.</li> <li>(6) Oral Examination.</li> </ol>

IN	SINGLE-COURSE STUDENTS.	DOUBLE-COURSE STUDENTS.
ITALIAN	<p>1918, and until further notice.</p> <p>I. Translations into and from Italian.</p> <p>II. Questions on Language and Versification.</p> <p>III. Essay in Italian on one of the modern Italian writers studied during the session.</p> <p>IV. Oral Examination.</p>	<p>1918 and until further notice.</p> <p>Students taking Italian Higher should apply to the Lecturer.</p>

IN	SINGLE-COURSE STUDENTS.	DOUBLE-COURSE STUDENTS.
HEBREW	<p style="text-align: center;"><b>October, 1918.</b></p> <p>GENESIS, Ch. I.—XXXV.; ECCLESIASTES; PSALMS, Book II.  History of Israel, 854—444 B.C. (H. P. Smith).  History of the Literature (Kautzsch) and Text (Weir) of the Old Testament.  Unseen translation and pointing; prose composition; grammar and accents.</p> <p style="text-align: center;"><b>March and October, 1919.</b></p> <p>GENESIS, Ch. XX.—XLVIII.; ECCLESIASTES; PSALMS, Book II.  History of Israel, B.C. 854—B.C. 444 (H. P. Smith).  History of the Literature (Kautzsch) and Text (Weir) of the Old Testament.  Unseen translation and pointing; Prose composition; Grammar and Accents.</p>	<p>I. Unseen translation and pointing.  II. Prose composition.  III. Prescribed books.<sup>1</sup>  IV. Special period of literature and history, with introduction to special books.</p> <p style="text-align: right;"><sup>1</sup> For information apply to the Professor.</p>

IN	SINGLE-COURSE STUDENTS.	DOUBLE-COURSE STUDENTS.
<p>CELTIC</p>	<p>I. Unprepared Translation from Modern Scottish Gaelic.            II. Gaelic Prose Composition : or, alternatively, an Essay in Gaelic on a given subject connected with Gaelic or the Highlands.            III. A General Paper on the History, Antiquities, Gaelic Language and Literature, with special reference to the subject-matter of the Prescribed Books.  <i>The Literature of the Highlands</i>, by Prof. Magnus Maclean ;  <i>The Biographical Sketches in The Beauties of Gaelic Poetry</i>, by John MacKenzie, are recommended.            IV. Prescribed Books :            (1) <i>The Songs of John MacCann</i>.            (2) <i>The Gaelic in the Book of Deer</i>.            (3) <i>Dùil mac n-Uisig</i>.            (4) Atkinson's <i>The Passions and the Homilies from the Leabhar Breac</i>, pp. 181-206.            (2) A translation and notes by Dr. Alex. MacBain, are published in <i>Scoto-Celtic Studies, Essays and Papers</i>, pp. 67-96.            (3) The older version, Advocates' Library MS., 53, is published with translation by Dr. W. H. Stokes in <i>Irish Texts</i>, II. 109-183.            The more modern version, Advocates' Library MS. 56, with translation by Dr. Cameron in <i>Reliquiae Celticae</i>, II. pp. 421-463.  <sup>1</sup> Matriculated students may obtain copies of these texts and of <i>The Book of Clanranald</i> and of <i>Outlines of Gaelic Grammar</i>, gratis from the Lecturer.</p>	<p>1. Unprepared Translation from Modern and easy Middle Gaelic.            2. Gaelic Prose Composition : or, alternatively, an Essay in Gaelic on a given subject connected with Gaelic or the Highlands.            3. A General Paper on the History, Antiquities, Gaelic Language and Literature, with special reference to the subject-matter of the Prescribed Texts.            Dr. Magnus Maclean's <i>The Literature of the Highlands</i>, and <i>The Literature of the Celts</i> ; and John MacKenzie's <i>Biographical Sketches in The Beauties of Gaelic Poetry</i>, are recommended.            4. Prescribed Books :            (1) Carwell's <i>The Book of Common Order</i>, pp. 1-100.            (2) Keating's <i>Three Shofa of Death</i>, Bk. III.            (3) Atkinson's <i>The Passions and the Homilies from the Leabhar Breac</i>, pp. 81-180.            (4) Strachan's <i>Old Irish Glosses</i>.            (5) <i>Macgnimmartha Finn</i>.  <sup>1</sup> Prof. Kuno Meyer published the text in <i>Revue Celtique</i>, V. 197-204 ; a translation in <i>Ériu</i>, I. 180-190 ; and the poem beginning "Cetmain, cain re," with translation and vocabulary in <i>Songs of Summer and Winter</i>, Nutt, 1903.</p>
<p>LOGIC</p>	<p><i>The Class Lectures. Berkeley's Principles of Human Knowledge (in Fraser's Selections from Berkeley).</i></p>	<p>1918 and thereafter until further notice.            Candidates who have taken a second course in Logic will, in addition, be examined on either (a) the subjects, authors, or periods discussed in the lectures of the Higher Ordinary Class during the session in which the candidate has attended that class, or (b) the Class-Lectures and the books prescribed in Experimental Psychology.</p>

IN	SINGLE-COURSE STUDENTS.	DOUBLE-COURSE STUDENTS
MORAL PHILOSOPHY	The Professor's and other Lectures during the session in which the student examined has attended the Moral Philosophy Class, the <i>Republic</i> of Plato, Carlyle's <i>Sartor Resartus</i> and H. Jones' <i>Idealism as a Practical Creed</i> .	1918 and thereafter until further notice.  The subjects included in the student's single course, together with either (a) the Lectures in the Intermediate Class and the following books, viz., Aristotle's <i>Ethics</i> , Kant's <i>Metaphysics of Morals</i> , and Green's <i>Prolegomena to Ethics</i> , or (b) the Lectures in the combined class of Political Philosophy and Social Economics and the text-books prescribed for study in the class.
POLITICAL ECONOMY	The Lectures and Text-books of the session in which the student has attended the class.	1918 and thereafter till further notice.  The Lectures in the combined class of Political Philosophy and Social Economics and the Text-books prescribed for study in the class.

IN	SINGLE-COURSE STUDENTS.	DOUBLE-COURSE STUDENTS.
EDUCATION	The Class Lectures, Rousseau, <i>Emile</i> .	
MATHEMATICS	Geometry of Similar Figures and Elements of Higher Geometry. Algebra with graphical representation of functions. Trigonometry. Elements of Coordinate Geometry as treated in class.	(In addition to the single-course subjects.) More advanced Geometry and Algebra, including Elementary Theory of Equations and Infinite Series. Complex Numbers and De Moivre's Theorem. Elementary Coordinate Geometry and Calculus.
NATURAL PHILOSOPHY	The subjects explained in the Ordinary Class. Dynamics, Acoustics, Heat, Light, Magnetism, and Electricity.	The subjects taught in the Ordinary Class, and in Higher Class C. Questions will be set to test the candidate's knowledge of laboratory processes. As the special subjects studied in Class C may be slightly changed from year to year, students are advised to present themselves at the May or the October examination immediately following their attendance on that class.
ASTRONOMY	The Professor's Lectures during the session or sessions in which the student has attended the class, and Popular Astronomy.	

IN	SINGLE-COURSE STUDENTS.	DOUBLE-COURSE STUDENTS.
CHEMISTRY	<p>Theory: Principles of Chemistry, Chemistry of the Non-Metallic and the Principal Metallic Elements. Outlines of Organic Chemistry.</p> <p>Practical: Inorganic preparations. Qualitative analysis, including mixtures.</p>	
ZOOLOGY	<p>The Elementary Lectures and Practical Work, together with the Spring Courses.</p> <p>Text-books by Shipley &amp; MacBride or Sedgwick; Marshall &amp; Hurst; Jordan and Kellogg, <i>Evolution and Animal Life</i>; Weismann's <i>Evolution Theory</i>; Kellicott's <i>General Embryology</i>.</p>	
BOTANY	<p>The syllabus of work in the course of Botany for M.A. (from October, 1910, till further notice) may be obtained from the Registrar.</p> <p>Books recommended: Strasburger, <i>Text-Book of Botany</i>. For description of types—Scott, <i>Structural Botany</i>: I. Flowering Plants; II. Flowerless Plants. Flora—Hooker, <i>Student's Flora</i>.</p> <p>There will be one three-hour paper, and a practical and oral examination.</p>	
GEOLOGY <sup>1</sup>	<p>The Materials of the Earth's Crust and Elementary Mineralogy; Physical and Structural Geology; Stratigraphy; Elementary Palaeontology; Economic Geology, including the study of Soils, Water Supply, Building Stones, and geological questions connected with Public Health; General Geology of Scotland, with especial reference to the Glasgow district.</p>	

<sup>1</sup> The examination in this and the three preceding subjects will be oral and practical, as well as by written papers.

IN	SINGLE-COURSE STUDENTS.	DOUBLE-COURSE STUDENTS.
GEOGRAPHY	The Lectures, and Text-books recommended for the work of the class.	
HISTORY	Outlines of European History, either A.D. 476-1453 or A.D. 1453-1878.	History of Great Britain, 1485-1832, in addition to the work prescribed for single-course students.
CONSTITUTIONAL LAW AND HISTORY	The Class Lectures with Taswell-Langmead's <i>English Constitutional History</i> and Dicey's <i>Law of the Constitution</i> .	In addition to the work prescribed for single-course students, double-course students will be examined on the subjects discussed in the Honours Class for the year in which they have attended.
ROMAN LAW	Institutes of Justinian (ed. Moyle or Sanders), and the Class Lectures. <i>Note.</i> —Candidates who aim at a degree in Law are recommended, in addition to the above, to profess <i>Dig.</i> , Lib. XVIII, Tit. I. The title is translated and annotated by Mackintosh in his "Roman Law of Sale."	
SCOTTISH HISTORY AND LITERATURE	<p>Outlines of Scottish History and of the History of Scottish Literature.</p> <p>A knowledge of the following books will be required from all Candidates:</p> <p>(1) Barbour's <i>Brut</i>. Books VIII and IX.</p> <p>(2) Selected Poems of Robert Burns, edited by Andrew Lang (London: Kegan Paul) or some similar selection.</p> <p>(3) The following novels of Sir Walter Scott—<i>Waverley</i>, <i>Guy Mannering</i>, <i>The Antiquary</i>, <i>Old Mortality</i>, <i>Rob Roy</i>, <i>The Legend of Montrose</i>, <i>The Abbot</i>, <i>The Fair Maid of Perth</i>.</p> <p>(4) Lockhart's <i>Life of Scott</i>. The Autobiography in Chapter I, and Chapters XXXIII-XLIII.</p> <p>A minute acquaintance with the text will not be required.</p>	The Outlines of the Development of the Organisation of the Kingdom of Scotland, in addition to the work prescribed for single-course students.



## Latin :

1. Virgil : *Eclogues, Georgics, Aeneid*.
2. Horace : *Satires, Epistles, and Ars Poetica*.
3. Plautus : *Captivi*.
4. Cicero : *Tusculan Disputations*, or Tyrrell's Selection from the *Letters*.
5. Livy VII—IX.
6. Tacitus : *Annals*, XI—XIV, or *Historics*.

Prescribed Books : Questions—Greek, 3 hours.

Latin, 3 hours.

\* Named Authors : Latin, 3 hours.

## \* NAMED AUTHORS.

## Latin :

Five passages will be set, of which any three are to be translated, from

Terence.	
Lucretius.	
Catullus with Tibullus I,	Cicero (always two passages).
II and Propertius III, IV.	
Ovid.	
Lucan.	
Juvenal.	
Martial.	Sallust.
	Caesar.
	Quintilian.

Candidates will only be required to translate, not to explain, the passages from Named Authors. They will be expected to have sufficient general knowledge of these authors to be able to translate an average, not an exceptionally difficult, passage.

## ENGLISH.

The subjects of examination in English [*i.e.* English Literature, with Language and History as subsidiary subjects] will be as follows :

I. LITERATURE.—(1) General History of English Literature. Two papers will be set, of which the first will deal more particularly with Chaucer, Spenser, and the rise of the Drama. (2) One author to be selected from the following list for 1919—*Milton, Dr. Johnson, Byron, Arnold*. [For 1920 the authors will be *Dryden, Fielding, Wordsworth, Tennyson*.] (3) Shakespeare. (4) Literary Theory. [Candidates should be acquainted with Aristotle's *Poetics*, Longinus on the Sublime, Horace's *Ars Poetica*, and the critical writings of Sidney, Ben Jonson, Dryden, Dr. Johnson, Coleridge and Matthew Arnold.] (5) A Dissertation on some subject approved by the Professor; the dissertation to be sent in to the Registrar not less than a month before the first day of the examination at which the candidate presents himself.

II. LANGUAGE.—See "English Language, A."

## III. HISTORY :

- (a) The Renaissance and Reformation in Europe.
- (b) The Eighteenth Century.
- (c) The French Revolution.

Books to be used as texts :

- (a) Commynes, *Mémoires*; Machiavelli, *The Prince*; Knox, *History of the Reformation in Scotland*; Harrison, *England*.
- (b) Locke, *Four letters on Toleration*; Swift, *Conduct of the Allies*; *Letters of Junius*; Bolingbroke, *Patriot King*.
- (c) Burke, *Reflections*; Paine, *The Rights of Man*; Rousseau, *Contrat Social*; Young, *Travels in France*.

In regard to the prescribed Books, Candidates may select one group only.

III. (Alternative to History)—The Relations between English and Italian Literature.

*Note.*—Students who wish to graduate with Honours in Moral Philosophy or Logic with English, are required to take the Literature and British History (or Italian) papers, and to write a thesis in connexion with English or Moral Philosophy or Logic.

## ENGLISH LANGUAGE.

### A. HONOURS IN ENGLISH.

- (1) General History of the English Language, with special reference to the Development of Standard English.
- (2) The Grammar of Old and Middle English.
- (3) Translation and Interpretation of specified and unspecified texts (see note).
- (4) Early English Literature (to the middle of the 14th century), Metric, and Literary Criticism.

*Note.*—In October, 1913, and till further notice, the prescribed texts are: (i.) Sweet's *Anglo-Saxon Reader*, (ii.) a. Emerson: *Middle English Reader*, b. *Havelok the Dane*, or *The Owl and Nightingale*, c. Chaucer: *Prologue and Knight's Tale*, (iii.) *Beowulf*.

### B. HONOURS IN GERMANIC LANGUAGES.

- (1) The Principles of Germanic Philology, with special reference to the languages studied for this examination.
- (2) Gothic (for texts see note).
- (3) History of English from the origins to the present day.
- (4) Translation and Interpretation of specified and unspecified texts (see note).
- (5) Early English Literature, Metric, Institutions, and allied subjects.

*Note.*—The prescribed texts are, till further notice:—(a) Gothic—1. The Gospel of St. Mark; 2. Epistles to the Corinthians. (b) English—1. *Beowulf*; 2. Chaucer; 3. one prose text and one verse text in both Old English and Middle English, selected from the following list, or approved beforehand by the lecturer:—Alfred's *Boethius*, the O.E. *Bede*, *Exodus*, *Elene*, *Havelok the Dane*, *Gawayne and the Greene Knight*, *Ancren Riwe*, *Dan Michel's Ayenbite of Inwyrt*.

## FRENCH.<sup>1</sup>

1918 and until further notice.

I. Translations from Old French and from Modern French into English, and from English into French.

<sup>1</sup>In French, or German, or Italian, instead of Paper III. (General History of Literature), candidates are allowed to offer a dissertation written in the foreign language on some question dealing with the history of literature, the subject to be approved by the Lecturer, and the dissertation to be lodged with the Registrar not less than one month before the first day of the examination at which the candidate presents himself (or herself). The same arrangement is applicable to Celtic.

II. Questions on the language and versification of prescribed texts (Old and Modern French), on the History of the Language and on Historical French Grammar. Reading recommended: Brunot, *Hist. de la langue française* (Colin), vols. I. and II.; F. Brunot, *Précis de Grammaire historique de la langue française* (Masson).

L. Clédât, *Manuel de Phonétique et de Morphologie historique du Français* (Hachette).

III. Questions on the General History of French Literature, or a Dissertation in French. (See note 1 at foot of this page.)

IV. Essay in French on a subject taken from one of the following periods: (1) The Middle Ages; (2) The 16th and 17th centuries; (3) The 18th and 19th centuries.

V. Oral Examination on any of the prescribed books.

LIST OF BOOKS. The prescribed books are as follows:

I. EARLY PERIOD: *Chrestomathie du moyen âge*, ed. G. Paris (Hachette); *Chanson de Roland*, ed. G. Paris (Hachette); *La Chastelaine de Vergi* (Champion); *François Villon, Oeuvres*, ed. A. Longnon (Champion); Montaigne, *Extraits*, ed. Jeanroy (Hachette); *Pages choisies de Rabelais*, ed. Huguet (A. Colin).

II. XVIII<sup>TH</sup> CENTURY: Marivaux, *Théâtre* (Dent); Rousseau, *Lettre à d'Alembert sur les Spectacles*, ed. Brunel (Hachette); Voltaire, *Charles XII.*; Chénier, *Poésies* (Gowans & Gray); *Choix de lettres du XVIII<sup>e</sup> siècle*, ed. Lanson (Hachette).

III. NINTH CENTURY: Lamartine, *Oeuvres Choiesies (Poésies)*, ed. Weltz (Hachette); V. Hugo, *Morceaux Choiesies (Poésies)*, Delagrave; *Notre Dame de Paris, les Travailleurs de la mer*; A. de Vigny, *Poésies* (Gowans & Gray), Chatterton's *Cinq Mars*; Leconte de Lisle, *Poèmes barbares* (Lemerre) *Anthologie des poètes français (XIX<sup>e</sup> siècle)* Lemerre.

## GERMAN.<sup>1</sup>

### A. HONOURS IN MODERN LANGUAGES.

#### 1918 and until further notice.

I. Unseen Translation and Prose Composition.

II. (a) Old High German; (b) Middle High German

III. General Outline of German Literature.<sup>1</sup>

IV. (1) 1918: A special knowledge of the history of German poetry and the novel.

1919: A special knowledge of the history of the German novel and the drama.

1920: A special knowledge of the history of the German drama and German poetry.

(2) A knowledge of the chief works in the particular branches which are prescribed for the year.

V. Oral Examination.

<sup>1</sup> See footnote on p. 274.

## B. HONOURS IN GERMANIC LANGUAGE.

1918 and 1919.

I. (a) Principles of Germanic Philology; (b) Gothic. (See under "English Language," B.)

II. (1) Old High German Grammar and Literature, and Braune's *Althochdeutsches Lesbuch*. (2) Middle High German Grammar and Literature; Bartsch, *Liederdichter* (Selections); Walther von der Vogelweide; *Kudrun*; Wolfram von Eschenbach, *Parzival*, Book III.; *Meier Helmbrecht*. (3) History of the German Language and Historical German Grammar.

III. German Literature from 1745 to the present time, and the history of German poetry, or the German drama, or the novel.

ITALIAN.<sup>1</sup>

1918.

I. Translations from Old Texts.

II. „ „ English into Italian and *vice versa*.

III. Questions on General History of Italian Literature.

IV. Questions on the prescribed books.

V. Essay in Italian on one of the writers of the first half of the nineteenth century.

VI. Oral Examination.

1919.

I. Translations from Old Texts.

II. „ „ English into Italian and *vice versa*.

III. Questions on General History of Italian Literature.

IV. Questions on the prescribed books.

V. Essay in Italian on one of the writers of the 2nd half of the nineteenth century.

VI. Oral Examination.

1920.

I. Translations from Old Texts.

II. „ „ English into Italian and *vice versa*.

III. Questions on the General History of Italian Literature.

IV. Questions on the prescribed books.

V. Essay in Italian on one of the writers of the fourteenth century.

VI. Oral Examination.

HEBREW.<sup>2</sup>

Proverbs and Job.

<sup>3</sup> Ecclesiastes, Esther, Daniel.

<sup>1</sup> See footnote on p. 274.

<sup>2</sup> In addition to four papers set in Hebrew and four in Arabic there will be one on the Comparative Grammar of the Semitic Languages, along with Dalman's *Aramäische Lesestücke*, I. and V.—VIII.

<sup>3</sup> In 1920, Isaiah.

Pesahim (edit. Strack).

*Wisdom of Ben Sira* (Codex A; as edited by Strack).

History and Antiquities.

History of Literature to the close of the Talmud.

Composition and unseen Translation.

## ARABIC.<sup>1</sup>

The Korān: Baidāwī's Commentary on selected chapters; Yaziji, *Majma al-Bahreīn*; Ibn Khaldūn in Semitic Studies Series; selections from Grammarians and Old Poetry; *El-Fekhri*; History of Mohammadan Dynasties and of Crusades (Stevenson); Arabic History and Literature; Prose Composition; Grammar (Wright); Arabian Epigraphy.

## CELTIC.

I. Unprepared Translation.

II. Composition in Modern Gaelic: or, alternatively, a Gaelic Essay on one of the modern Gaelic poets; easy sentences translated from prescribed work to be turned back into Middle or Old Gaelic.

III. Questions on the language, versification, history, and historical grammar of Gaelic.

IV. Questions on the General History of Gaelic Literature.<sup>2</sup>

V. Palaeography. Pages to be transcribed from the facsimiles of the Books of *Leinster* and *Ballymote*, and from the *Ratisbone MS.* A knowledge of the Ogham characters in *Auraicept na n-Éces*.

VI. Prescribed Books:

(1) Extracts from the Fernaig MS. (in the University Library). A knowledge at first hand of the passages which are transcribed and (in parts) modernised in Dr. Cameron's *Reliquiae Celticae*, II. 1-137.

(2) Passages from *The Book of the Dean of Lismore*, which were edited first by Dr. MacLachlan, pp. 1-127, and again by Dr. Cameron, *Reliquiae Celticae*, I. 1-118.

(3) *The Irish Hymns in the Liber Hymnorum*, published, with vocabulary, in *Irische Texte*, I. 5-58, and, with translation, in *Thesaurus Palaeohibernicus*, II. 298-359.

## LOGIC.

(a) Logic and Psychology: the subjects of the Class Lectures, Ordinary and Advanced. Candidates will be expected to have read some of the larger modern treatises on Logic, such as Mill, Venn, Sigwart, or Bosanquet, and a treatise on Psychology such as Stout's *Analytic Psychology* or James's *Principles of Psychology*.

(b) Metaphysics: (1) Kant's *Kritik of Pure Reason*. (2) Two of the following subjects, one to be a subject in Greek Philosophy and one in Modern Philosophy: (i.) History of Greek Philosophy up to Aristotle;

<sup>1</sup> See footnote 2 on p. 276.

<sup>2</sup> See footnote on p. 274.

(ii.) Aristotle and the Post-Aristotelian systems (exclusive of Neo-Platonism); (iii.) Descartes and Cartesianism, Spinoza and Leibniz; (iv.) Locke, Berkeley and Hume; (v.) Hegel's smaller *Logic* (Wallace's translation).

### MORAL PHILOSOPHY.

Candidates for Honours will be examined in: (1) The courses of the Professor and Lecturers; (2) Aristotle's *Ethics* (omitting Books VII and VIII), Aristotle's *Politics*, Books I—IV, and, in connection therewith, the History of Ethical Thought in Greece previous to Aristotle; (3) Spinoza's *Ethics*; (4) The Ethical Theory of Kant, together with Caird's *Philosophy of Kant*; Books II, III, IV, and Green's *Prolegomena to Ethics*; (5) the general history of Modern Hedonism; (6) The history of Political Theories from Machiavelli to Green.

Candidates are, in addition, expected to offer for examination some book, subject, author, or period; or to submit a thesis on a subject in Philosophy, either in Logic or in Moral Philosophy or in English, such thesis to be lodged by the candidate when entering his name for examination.

### ECONOMIC SCIENCE.

I. POLITICAL ECONOMY.—The subjects of the Class Lectures, Ordinary and Advanced, and of the Lectures (if any) on Economic History. Prescribed books: Marshall, *Principles of Economics*; Bastable, *Public Finance*; Adams, *Public Debts*; Seligman, *Essays in Taxation*; Edgeworth, *Mathematical Principles of Taxation* (*Econ. Journal*, vii.); Ingram, *History of Political Economy*; Nicholson, *Money and Monetary Problems*; Bastable, *International Trade*; Cannan, *Theories of Production and Distribution*; Scott, *Joint Stock Companies*, Vol. i.; Unwin, *Industrial Organisation*; Davidson and Gray, *Scottish Staple at Veere*; Keith, *Commercial Relations of England and Scotland*. Candidates may submit a thesis on some subject to be approved by the Professor.

II. *Either* (a) LOGIC—see the regulations for Honours in Logic *ut supra*.

*Or* (b) MORAL PHILOSOPHY—see the regulations for Honours in Moral Philosophy *ut supra*.

*Or* (c) HISTORY.—The two qualifying courses may be chosen from the following alternatives: as the *Ordinary Course*, the ordinary course of the Professor of History, or the ordinary course of the Lecturer in Constitutional Law and History, or the Higher Ordinary course in History; as the *Honours Course*, one of the following honours courses, viz., that of the Professor of History, that of the Lecturer in Constitutional Law and History, that of the Lecturer in British History. The subject of examination will be British History, with special attention to its economic side, to be studied in Cunningham, *Growth of English Industry and Commerce*, and Ashley, *Economic History*.

### MATHEMATICS.

In addition to the subjects prescribed for the Ordinary Degree, Plane and Spherical Trigonometry; Analytical Geometry of two and three Dimensions; Differential and Integral Calculus; Differential Equations; Elements of the Theory of Functions. Candidates are also expected to profess a subject such as Harmonic Analysis, or Bessel Functions, or Elliptic Functions, or

Algebra of Invariants, or Theory of Groups, etc., and will be examined on the more important aspects of the subject professed.

Professions to be lodged with the Registrar at least one month before the first day of the examination.

### NATURAL PHILOSOPHY.

The subjects for Honours are grouped as follows for 1916 and the following years :

Group I.—Higher Dynamics (Statics and Kinetics of a particle and of a rigid body, including attractions).

Group II.—(1) Hydrodynamics and Sound ; (2) Heat, including Thermodynamics and Conduction of Heat.

Group III.—(1) Light ; (2) Electricity and Magnetism.

*Note carefully.*—Every candidate must choose Group I., and one subject, and one subject only, from each of the other groups. Ordinarily the first paper will be set on Group I., the second on Group II., and the third on Group III.

Candidates for Honours must show evidence of considerable independent reading. Also perseverance and initiative in attacking unfamiliar problems should be cultivated throughout the class work in preparation for the examination. Mere reproductions of class work will not qualify for the highest honours in the subject.

Professions to be lodged with the Registrar at least one month before the first day of the examination.

### ASTRONOMY.

See p. 293 (B.Sc., Astronomy as the Principal Subject).

### HISTORY.

1915, and until further notice.

Candidates will be examined in the following subjects: (1) Outlines of a period of European History, either (a) A.D. 476-1453, or (b) 1453-1878. (2) British History to 1880. This subject includes the History of England and Scotland, the History of Ireland from the reign of Henry II., and the History of the Colonial Empire of Great Britain. (3) The General History of the English Constitution with an outline knowledge of the Constitutional Law of Great Britain. (4) One of the following alternative subjects at the option of the candidate: (a) The growth of the English Constitution to the reign of Edward I. Prescribed book: Stubbs, *Select Charters*. (b) The development of the organization of the Kingdom of Scotland. (c) The History of the Roman Empire with special reference to selected documents. [The selected documents are those prescribed for candidates taking Roman History as a subject for Honours in Latin (see p. 272).]

Candidates may, *in addition*, submit through the Professor of History a thesis on some subject of British or Foreign History to be approved by the Board of Examiners for Honours in History. This should, as far as possible, be based on the leading original authorities on the subject of which it treats. Such thesis, when offered, will be considered as forming an integral part of the examination.

## TABLE OF EXAMINATIONS FOR THE DEGREE OF M.A. TO BE HELD DURING SESSION 1918-19.

Names to be given in and Fees paid to the Registrar, the University. <sup>1</sup> Date. <sup>2</sup>	FEE.	I. WRITTEN EXAMINATIONS IN THE BEGINNING OF THE SESSION.	
From 19th to 27th August, 1918, both days inclusive.	£1 1s. FOR EACH SUBJECT UNTIL 4.30 P.M. SHALL HAVE BEEN PAID.	Italian (Ord. and Higher), - - -	Thurs., 19th Sept., 9-12 noon and 2-5 p.m.
		Geography, - - -	Do., 19th Sept., 9-12 noon.
		Geography (Practical), - - -	Do., 20th Sept., 2-5 p.m.
		Scottish History and Literature, - - -	Friday, 20th Sept., 9-12 noon and 2-5 p.m.
		Mathematics (Ord., Higher, <sup>3</sup> and Hon.), - - -	Sat., 21st Sept., 9-12 noon and 2-5 p.m.
		History (Ord. and Higher), - - -	Mon., 23rd Sept., 9-12 noon and 2-5 p.m.
		English (Ord.), - - -	Tues., 24th Sept., 9-11 a.m. and 12-2 p.m.
		English (Higher), - - -	Do., 24th Sept., 9-12 noon.
		Latin (Ord.), <i>Prescribed Books</i> , - - -	Do., 24th Sept., 3-5 p.m.
		Latin (Ord.), <i>Unprepared Translation</i> , - - -	Do., 25th Sept., 9-11 a.m.
		Latin (Ord.), <i>Prose or Roman Britain</i> , - - -	Do., 25th Sept., 12-2 p.m.
		Latin (Ord.), <i>General</i> , - - -	Do., 25th Sept., 3-5 p.m.
		Education, - - -	Thurs., 26th Sept., 9-12 noon.
		English (Hon.), - - -	Do., 26th Sept., 9-12 noon and 2-5 p.m.
		English Lang. (Germanic Hon.), - - -	Do., 26th Sept., 9-12 noon and 2-5 p.m.
		English Lang. (Germanic Hon.), - - -	Do., 26th Sept., 9-12 noon and 2-5 p.m.
		Botany, - - -	Friday, 27th Sept., 9-12 noon.
		Astronomy, - - -	Do., 27th Sept., 9-12 noon.
		English (Hon.), - - -	Do., 27th Sept., 9-12 noon.
		Chemistry, - - -	Do., 27th Sept., 9-12 noon.
		English Lang. (Higher), - - -	Do., 27th Sept., 9-12 noon.
		English (Hon.), - - -	Do., 27th Sept., 9-12 noon.
		English (Higher), - - -	Do., 27th Sept., 9-12 noon.
		Zoology, - - -	Do., 27th Sept., 9-12 noon.
		Astronomy, - - -	Monday, 30th Sept., 9-12 noon.

<sup>1</sup> For Women Students, Miss Melville, Queen Margaret College.<sup>2</sup> When names are not given in, and fees are not paid within the stated dates, a late Entry Fee of Twenty Shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged. Late Entry Fees will not be accepted less than eight days before the date of examination.<sup>3</sup> Candidates who have passed in Ordinary Mathematics take only the forenoon paper.

# TABLE OF EXAMINATIONS FOR THE DEGREE OF M.A. TO BE HELD DURING SESSION 1918-19.

DATES OF EXAMINATIONS FOR MASTER OF ARTS.

281

Names to be given in and Fees paid to the Registrar, the University. <sup>1</sup> Date. <sup>2</sup>	FEE.  £1 1s. FOR EACH SUBJECT UNTIL £5 5s. SHALL HAVE BEEN PAID.	I. WRITTEN EXAMINATIONS IN THE BEGINNING OF THE SESSION. — <i>Continued.</i>	
		Mathematics (Hon.), Constitutional Law and History (Ord.), Hebrew (Ord., Higher, and Hon.), Constitutional Law and History (Higher), History (Hon.), English (Hon.), Roman Law, Social Economics, English (Hon.), Hebrew (Hon.), German (Hon.), Italian (Hon.), Political Economy (Ord., Higher, & Hon.), Moral Philosophy (Ord.), Moral Philosophy (Higher and Hon.), History (Hon.), German (Hon.), Italian (Hon.), Political Philosophy, Celtic (Ord. and Higher), Logic (Ord. and Higher), Latin (Hon.), <i>Prose</i> , Logic (Hon.), History (Hon.), Arabic (Hon.), Latin (Higher), <i>Unprescribed Translation</i> ,	Monday, 30th Sept., 9-12 noon. Do., do., 9-12 noon. Do., do., 9-12 noon and 2-5 p.m. Do., do., 9-12 noon and 2-5 p.m. Do., do., 9-12 noon and 2-5 p.m. Do., do., 9-12 noon and 2-5 p.m. Do., do., 2-5 p.m. Tuesday, 1st Oct., 9-12 noon. Do., do., 9-12 noon. Do., do., 9-12 noon and 2-5 p.m. Do., do., 9-12 noon and 2-5 p.m. Do., do., 9-12 noon and 2-5 p.m. Do., do., 2-5 p.m. Wed., 2nd Oct., 9-12 noon. Do., do., 9-12 noon and 2-5 p.m. Do., do., 9-12 noon and 2-5 p.m. Do., do., 9-12 noon and 2-5 p.m. Do., do., 2-5 p.m. Do., do., 2-5 p.m. Thurs., 3rd Oct., 9-12 noon. Do., do., 9-12 noon. Do., do., 9-12 noon and 2-5 p.m. Do., do., 9-12 noon and 2-5 p.m. Do., do., 9-12 noon and 2-5 p.m. Do., do., 2-4 p.m.

<sup>1</sup> For Women Students, Miss Melville, Queen Margaret College.

<sup>2</sup> When names are not given in, and fees are not paid within the stated dates, a late Entry Fee of Twenty Shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged. Late Entry Fees will not be accepted less than eight days before the date of Examination.

TABLE OF EXAMINATIONS FOR THE DEGREE OF M.A. TO BE HELD DURING SESSION 1918-19.

Names to be given in and Fees paid to the Registrar, the University. <sup>1</sup> Date. <sup>2</sup>	FEE.	I. WRITTEN EXAMINATIONS IN THE BEGINNING OF THE SESSION.— <i>Continued.</i>	
From 19th to 27th August, 1918, both days inclusive.	£1 1s. FOR EACH SUBJECT UNTIL £5 5s. SHALL HAVE BEEN PAID.	Roman History, <i>Unprescribed Translation</i> , Latin (Hon.), <i>Unprescribed Translation</i> , Celtic (Ord. and Higher), - - - Latin (Higher), <i>Prescribed Books</i> , - - - Roman History, <i>General</i> , - - - British History (Hon. in Engl. and Phil.), Italian (Hon. in English), - - - Natural Phil. (Ord., Higher, and Hon.), - Arabic (Ord., Higher, and Hon.), - - - Latin (Hon.), <i>Prescribed Books</i> , - - - Latin (Higher), <i>Pres. Books (Questions)</i> , - Roman History, <i>Prescribed Texts Trans.</i> , Latin (Hon.), <i>Prescribed Books (Questions)</i> , Zoology (Practical), - - - Latin (Higher), <i>Named Authors</i> , - - - Natural Philosophy (Hon.), - - - History (Hon.), - - - Latin (Hon.), <i>Named Authors</i> , - - - Roman History, <i>Special Period</i> , - - - Latin (Higher), <i>Prose</i> , - - - Logic (Hon.), - - - Latin and Greek (Hon.), <i>Special Subject</i> , Roman History, <i>Mil. and Prov. Admin.</i> , Latin (Higher), <i>General</i> , - - - Moral Philosophy (Hon.), - - - Latin and Greek (Hon.), <i>History, etc.</i> , -	
		Thursday, 3rd Oct., 2-4 p.m. Do., do., 2-5 p.m. Do., do., 2-5 p.m. Friday, 4th Oct., 9-11 a.m. Do., do., 9-11 a.m. Do., do., 9-11 a.m. and 12-2 p.m. Do., do., 9-11 a.m. and 12-2 p.m. Do., do., 9-12 noon and 2-5 p.m. Do., do., 9-12 noon and 2-5 p.m. Do., do., 9-12 noon. Do., do., 2-4 p.m. Do., do., 2-4 p.m. Do., do., 2-5 p.m. Do., do., 9 a.m. Saturday, 5th Oct., 9-11 a.m. Do., do., 9-12 noon. Do., do., 9-12 noon and 2-5 p.m. Do., do., 9-12 noon. Do., do., 9-12 noon. Do., do., 2-4 p.m. Do., do., 2-4 p.m. Do., do., 2-5 p.m. Do., do., 2-5 p.m. Monday, 7th Oct., 9-11 a.m. Do., do., 9-11 a.m. Do., do., 9-12 noon.	

<sup>1</sup> For Women Students, Miss Melville, Queen Margaret College.<sup>2</sup> When names are not given in, and fees are not paid within the stated dates, a late Entry Fee of Twenty Shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged. Late Entry Fees will not be accepted less than eight days before the date of examination.

I. WRITTEN EXAMINATIONS IN THE BEGINNING OF THE SESSION.—Continued.	
Names to be given in and Fees paid to the Registrar, the University. <sup>1</sup> Date. <sup>2</sup>	From 19th to 27th August, 1918, both days inclusive.
FEE.	£1 1s. FOR EACH SUBJECT UNTIL £5 5s. SHALL HAVE BEEN PAID.
French (Higher and Hon.), Greek (Hon.), <i>Unprepared Translation</i> , Geology, - - - - - French (Ord., Higher, and Hon.), Greek (Hon.), <i>Prescribed Books</i> , Greek (Hon.), <i>Pres. Books (Questions)</i> , Geology (Practical), - - - - - German (Ord. and Higher), Greek (Hon.), <i>Prose</i> , French (Hon.), - - - - - Greek (Higher), <i>Unprepared Translation</i> , Greek (Hellenistic), - - - - - Greek History, - - - - - Greek (Ord.), <i>Prescribed Books</i> , Greek (Higher), <i>Prescribed Books</i> , Greek (Hellenistic), - - - - - Greek History, - - - - - German (Higher), - - - - - Greek and Latin Verse (Hon.)— <i>Optional</i> , Greek (Ord.), <i>Prose and Grammar</i> , Greek (Higher), <i>Prose</i> , Greek History, - - - - - Greek (Hellenistic), - - - - - French (Hon.), - - - - - Greek History, - - - - - Greek (Ord.), <i>General</i> , Greek (Higher), <i>General</i> , - - - - -	Monday, 7th Oct., Do., Tuesday, 8th Oct., Do

<sup>1</sup> For Women Students, Miss Melville, Queen Margaret College.<sup>2</sup> When names are not given in, and fees are not paid within the stated dates, a late Entry Fee of Twenty Shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged. Late Entry Fees will not be accepted less than eight days before the date of examination.



TABLE OF EXAMINATIONS FOR THE DEGREE OF M.A. TO BE HELD DURING SESSION 1918-19.

Names to be given in and Fees paid to the Registrar, the University, <sup>1</sup> Date. <sup>2</sup>	FEE.	III. WRITTEN EXAMINATIONS IN MAY AND JUNE, 1919.	
		Subjects	Dates and Times
From 5th to 9th May, 1919, both days inclusive.	£1 18. FOR EACH SUBJECT UNTIL £5 5S. SHALL HAVE BEEN PAID.	French (Higher), - - - - -	Saturday, 24th May, 9-12 noon.
		Education, - - - - -	Do., do., 2-5 p.m.
		French (Ord. and Higher), - - - - -	Monday, 26th May, 9-12 noon and 2-5 p.m.
		Constitutional Law and History (Higher), - - - - -	Do., do., 9-12 noon and 2-5 p.m.
		English Literature (Ord.), - - - - -	Tuesday, 27th May, 9-11 a.m. and 12-2 p.m.
		" (Higher), - - - - -	Do., do., 9-12 noon and 2-5 p.m.
		English Lang. (Higher), - - - - -	Do., do., 9-11 a.m., 12-2 p.m., 3-5 p.m.
		Moral Philosophy (Ord.), - - - - -	Wed., 28th May, 9-12 noon.
		" (Higher), - - - - -	Do., do., 9-12 noon and 2-5 p.m.
		Mathematics (Ord. and Higher), <sup>3</sup> - - - - -	Thursday, 29th May, 9-12 noon and 2-5 p.m.
		Logic (Ord. and Higher), - - - - -	Friday, 30th May, 9-12 noon.
		Geography, - - - - -	Do., do., 2-5 p.m.
		Latin (Ord.), <i>Prescribed Books</i> , - - - - -	Saturday, 31st May, 9-11 a.m.
		" (Higher), <i>Unprepared Translation</i> , - - - - -	Do., do., 9-11 a.m.
		Roman History, <i>Unprepared Translation</i> , - - - - -	Do., do., 9-11 a.m.
		Latin (Ord.), <i>Unprepared Translation</i> , - - - - -	Do., do., 12-2 p.m.
		Latin (Higher), <i>Prescribed Books</i> , - - - - -	Do., do., 12-2 p.m.
		Roman History, <i>General</i> , - - - - -	Do., do., 12-2 p.m.
		Latin (Ord.), <i>Prose or Roman Britain</i> , - - - - -	Do., do., 3-5 p.m.
		Latin (Higher), <i>Prescribed Bks. (Questions)</i> , - - - - -	Do., do., 3-5 p.m.
		Roman History, <i>Prescribed Texts Translation</i> , - - - - -	Do., do., 3-5 p.m.
		Latin (Ord.), <i>General</i> , - - - - -	Monday, 2nd June, 9-11 a.m.
		Latin (Higher), <i>Named Authors</i> , - - - - -	Do., do., 9-11 a.m.
		Roman History, <i>Special Period</i> , - - - - -	Do., do., 9-12 noon.

<sup>1</sup> For Women Students, Miss Melville, Queen Margaret College.<sup>2</sup> When names are not given in, and fees are not paid within the stated dates, a late Entry Fee of Twenty Shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged. Late Entry Fees will not be accepted less than eight days before the date of Examination.<sup>3</sup> Candidates who have passed in Ordinary Mathematics take only the forenoon paper.

Names to be given in and Fees paid to the Registrar, the University. <sup>1</sup> Date. <sup>2</sup>	FEE.	III. WRITTEN EXAMINATIONS IN MAY AND JUNE, 1919.		
From 5th to 9th May, 1919, both days inclusive.	£1 1s. FOR EACH SUBJECT UNTIL £5 3s. SHALL HAVE BEEN PAID.	Latin (Higher), <i>Prose</i> , - - - Roman History, <i>Mil. and Prov. Admin.</i> , - - - Latin (Higher), <i>General</i> , - - - History (Ord. and Higher), - - - Scottish Hist. and Lit. (Ord. and Higher), - - - Natural Philosophy (Ord. and Higher), - - - Greek (Ord.), <i>Prescribed Books</i> , - - - Greek (Higher), <i>Prescribed Books</i> , - - - Greek (Hellenistic), - - - Greek History, - - - Political Philosophy, - - - Greek (Ord.), <i>Prose and Grammar</i> , - - - Greek (Higher), <i>Prose</i> , - - - Greek History, - - - Greek (Ord.), <i>General</i> , - - - Greek (Higher), <i>General</i> , - - - Greek History, - - - Greek (Hellenistic), - - - Greek (Higher), <i>Unprepared Translation</i> , - - - Greek (Hellenistic), - - - Celtic (Ord. and Higher), - - - Social Economics, - - - Political Economy (Ord. and Higher), - - - German (Ord. and Higher), - - - " (Higher), - - - Italian (Ord. and Higher), - - - " (Ord. and Higher), - - -	Monday, 2nd June, 12-2 p.m. Do., 2-5 p.m. Do., 3-5 p.m. Tuesday, 3rd June, 9-12 noon and 2-5 p.m. Wed., 4th June, 9-12 noon and 2-5 p.m. Thursday, 5th June, 9-12 noon and 2-5 p.m. Friday, 6th June, 9-11 a.m. Do., 9-11 a.m. Do., 9-11.30 a.m. Do., 9-11 a.m. Do., 9-12 noon. Do., 12-2 p.m. Do., 12-2 p.m. Do., 12-2 p.m. Do., 3-5 p.m. Do., 3-5 p.m. Do., 3-5 p.m. Do., 3-5.30 p.m. Saturday, 7th June, 9-11 a.m. Do., 9-11 a.m. Do., 9-11 a.m. Do., 9-12 noon and 2-5 p.m. Monday, 9th June, 9-12 noon. Do., 2-5 p.m. Tuesday, 10th June, 9-12 noon and 2-5 p.m. Wed., 11th June, 9-12 noon. Do., 2-5 p.m. Thursday, 12th June, 9-12 noon.	

## 2.—GRADUATION IN SCIENCE.

The Scottish University Commissioners (1889) have ordained that two Degrees in Science may be conferred by each of the Universities of Scotland—viz., Bachelor of Science (B.Sc.) and Doctor of Science (D.Sc.). These Degrees may be given in Pure Science and in Applied Science.

## Degrees in Pure Science.

The following are the provisions of Ordinances No. 12,<sup>1</sup> No. 42, No. 44, and No. 155 as they apply to this University:—

I. Two Degrees in Science may be conferred by the University of Glasgow—viz., Bachelor of Science (B.Sc.) and Doctor of Science (D.Sc.).

II. Every candidate for the Degree of Bachelor of Science must pass the Preliminary Examination<sup>2</sup> prescribed by the Arts Ordinance (Regulations for Degrees in Arts); and the conditions with respect thereto imposed by that ordinance (see pp. 238-248) are applicable in all respects to candidates for the Degree of Bachelor of Science, except as follows:—(1) French or German may be substituted for Latin or Greek [See also page 240]; (2) Mathematics must be passed on the higher standard;<sup>3</sup> (3) a degree in Arts (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus, exempts from the Preliminary Examination.

III. (1) Candidates for the Degree of Bachelor of Science must, in the course of not less than three academical years, attend at least seven courses of instruction, in subjects prescribed for examination under Sections VIII. and IX. below.

(2) Three of these courses must be in subjects prescribed for the First Science Examination under Section VIII.; and four must be in subjects prescribed for the Final Science Examination under Section IX.

<sup>1</sup> This ordinance was printed in full in the *University Calendar* for 1892-93, pp. 485-488, and the modifications made by Ordinance No. 42 were indicated, by means of square brackets, in the *University Calendar* for 1894-95.

<sup>2</sup> Each applicant for examination in a special subject in the Preliminary Examination shall pay, in addition to the statutory fee for Preliminary Examination, the sum of One Guinea, and should the applicant be successful in passing the examination in the special subject he shall be entitled to recover the sum of One Guinea when he has become a matriculated student of the University, i.e., has entered his name in the Matriculation Album, and has been enrolled in at least one University Class.

<sup>3</sup> A student who, having passed the Arts Preliminary Examination in accordance with the provisions of the Arts Ordinance, has thereafter obtained a certificate of attendance on a qualifying class of Mathematics, shall not be required to pass any further examination in Mathematics as a condition of entering on the course of study for graduation in Science under the provisions of Ordinance No. 12. See Ordinance No. 44, Section V. Candidates for the Degree of B.Sc. in Pure Science may offer themselves for examination in Mathematics on the intermediate instead of on the higher standard; provided that in addition to the ancient or modern language already taken they also offer themselves for examination in a modern language as a fifth subject, such further examination to be on the standard prescribed by the Joint Board for the Medical Preliminary. Notwithstanding these provisions, candidates shall not be entitled to profess at the Final Science Examination Mathematics, Natural Philosophy, or Astronomy, unless they have passed the Preliminary Examination in Mathematics on the higher standard. See Ordinance No. 155, Section I.

IV. (1) Four of the seven courses must be taken in this University.

(2) Three may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science: Provided that the fees for attendance at an approved Institution or under a recognised teacher in Glasgow shall not be less than the fees exigible for the corresponding courses in the University.

V. All candidates, not matriculated students of the University, availing themselves of the permission to attend lectures at approved Institutions or by recognised teachers in Glasgow, shall at the commencement of each year of such attendance enrol their names in a book to be kept for that purpose in the University, paying a fee of the same amount as the Matriculation Fee paid by students of the University, and having in respect of such payment a right to the use of the Library of the University.

VI. (1) After receiving through the Faculty of Science the opinion of the Board of Studies, the Senatus determines from time to time the number of meetings of which a full course in any subject shall consist, and reports its determination to the University Court for its approval.

(2) After receiving through the Faculty of Science the opinion of the Board of Studies, the Senatus, with the approval of the University Court, may sanction half courses of not less than half the number of meetings which constitute a full course in the subject; but two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

(3) It is the duty of each Professor and Lecturer annually at the end of each winter session to submit to the Board of Studies a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Board of Studies shall transmit the schemes to the Faculty of Science, who shall submit them to the Senate with such observations as they may think fit to make thereon. The Senatus transmits such schemes, with such observations as it may think fit to make thereon, to the University Court for its approval.

(4) It is the duty of the Professors and Lecturers annually at the end of each winter session to submit to the Faculty of Science, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next academical year. The Faculty of Science transmits such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VII. The provisions of the preceding section do not apply to approved institutions or recognised teachers outside Glasgow; but the University Court shall not grant or continue recognition to any institutions or teachers unless they shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the Universities of Scotland.

VIII. (1) There is a First Science Examination<sup>1</sup> in the three following

<sup>1</sup> This examination includes practical work in the subjects admitting of, or requiring it.

subjects—viz., (1) Mathematics or Biology (*i.e.* Zoology and Botany);<sup>1</sup> (2) Natural Philosophy; (3) Chemistry.

(2) The examination in all these subjects is the same as the examination in these subjects for the Ordinary Degree of Master of Arts.

(3) Candidates may present themselves in any one or more of these subjects at any examination held after they have attended a full course in the subject or subjects professed.<sup>2</sup>

IX. (1) There is a Final Science Examination<sup>3</sup> on a higher standard in any three or more of the following subjects:—

- |   |  |
|---|--|
| 1. Mathematics.                           | 7. Geology, including Mineralogy. <sup>4</sup> |
| 2. Natural Philosophy.                    | 8. Zoology, including Comparative Anatomy.     |
| 3. Astronomy.                             | 9. Botany, including Vegetable Physiology.     |
| 4. Chemistry.                             | 10. Geography. <sup>5</sup>                    |
| 5. Human Anatomy, including Anthropology. |  |
| 6. Physiology.                            |  |

The University Court, on the recommendation of or after consultation with the Senatus, shall have power to make additions to the foregoing list of subjects, provided always that no subject shall be included in the list unless a qualifying course shall have been established therein.

(2) The standard of this examination shall be as nearly as possible equivalent to that of the examination for the Degree of Master of Arts with Honours, where the subjects are different; and where the subjects are the same the examination shall be identical.<sup>6</sup>

(3) A subject already taken under the preceding section for the First Science Examination may be taken also under this section for the Final Science Examination.

(4) Candidates presenting themselves for this examination must have attended four full courses of higher instruction, including practical or laboratory work, in the subjects professed, subject always to the provisions of Sections VI. and VII. hereof.

(5) The Final Science Examination shall be taken not less than one year after the candidate has passed the First Science Examination.

The Senate, with the approval of the University Court, has framed the following regulations for the Final Science Examination, viz.:

<sup>1</sup> See pp. 141-5.

<sup>2</sup> In Natural Philosophy the full course comprises (a) Ordinary Lecture Class, and (b) Ordinary Laboratory Course (one term of 10 hours per week, or two terms of 6 hours per week).

<sup>3</sup> This examination includes practical work in the subjects admitting of, or requiring it.

<sup>4</sup> The higher course in Geology, including Mineralogy, consists of fifty lectures together with practical Laboratory work.

<sup>5</sup> The words "10. Geography," together with the immediately succeeding paragraph, were added by University Court Ordinance No. XXXV., Glasgow No. 11 [Regulations for Degrees in Science] which was approved by His Majesty in Council on 5th July, 1911, and came into operation on 1st October, 1911.

<sup>6</sup> The following rules have been laid down by the Senate: (1) That a pass with Second Class Honours in the Arts Degree Examination in Mathematics and Natural Philosophy be accepted as exemption from the Final Examination in these subjects as Subsidiary Subjects for B.Sc. (2) Any Candidate who has passed with Honours in Mathematics and Natural Philosophy for the Degree of M.A. shall be allowed to qualify for the Degree of B.Sc. in Pure Science in either of these subjects as a Principal Subject, on passing such further examination as shall be approved by the Faculty of Science on the report of the Professor of the subject.

(a) A candidate shall be allowed the option of presenting himself in any one subject for the Final Science Examination, or in two, or in three or more at one time.

(b) One of the subjects taken by each candidate shall be chosen by him to be the principal subject in his examination, and the remaining two or more shall be considered to be subsidiary subjects, unless (see footnote to Sect. XII.) the candidate has been permitted to present himself for examination in more than one subject, each taken as a principal subject.<sup>1</sup>

(c) A candidate having selected his principal subject should consult the Professor of that subject, and determine which are to be his subsidiary subjects. After deciding upon the choice and scope of the subsidiary subjects to be offered a statement embodying this decision must be submitted to the Senate for approval.

(d) The subsidiary subjects must be, in part at least, cognate to the principal subject, and the examination in them shall also be upon an Honours standard, but shall have special regard to those parts of the subjects which are cognate to the principal subject.

The following list has been drawn up by the Faculty of Science for the guidance of students in choosing a suitable combination of subjects:

#### PRINCIPAL SUBJECT.

1. Mathematics.
2. Natural Philosophy.<sup>2</sup>
3. Astronomy.
4. Chemistry.
5. Human Anatomy, including Anthropology.
6. Physiology.
7. Geology, including Mineralogy.
8. Zoology, including Comparative Anatomy.
9. Botany, including Vegetable Physiology.
10. Geography.

#### SUBSIDIARY SUBJECTS.

- Natural Philosophy; Astronomy; Chemistry; Geology; Geography. Mathematics; Astronomy; Chemistry; Geology; Geography. Mathematics; Natural Philosophy; Geology; Chemistry; Geography. Mathematics; Natural Philosophy; Physiology; Geology; Zoology; Botany. Physiology; Zoology; Botany. Chemistry; Human Anatomy; Zoology; Botany. Chemistry; Zoology; Botany; Mathematics; Natural Philosophy; Geography. Human Anatomy; Physiology; Geology; Botany. Chemistry; Physiology; Geology; Zoology; Geography. Mathematics; Natural Philosophy; Astronomy; Geology; Botany.

<sup>1</sup> Candidates who have passed the examination in a subsidiary subject are permitted, subject to the condition that they have attended the required courses, to enter for examination in the same subject on the principal subject standard.

<sup>2</sup> Natural Philosophy as a Principal Subject.—The courses of attendance approved by the Senate (in addition to those required for the First Science Examination) are as follow: (a) For students who intend to profess mainly Mathematical Physics. Class C. (Dynamics and Physics); Class A. (Higher Mathematical); one term of 6 hours per week in Advanced Laboratory work. (b) For students who intend to profess mainly Experimental Physics. Class C. (Dynamics and Physics); three terms of 6 hours per week in Advanced Laboratory work. [Candidates to undergo an examination, including a practical examination on the determination of Physical Constants.

(e) Candidates shall be required to state at the time they enter for the final examination in each subject whether they desire it to be regarded as a principal subject or as a subsidiary subject, and in the event of the latter being the case they shall be required to state which subject they propose to take as a principal subject.

(f) Students are advised to pass the examinations in their subsidiary subjects before taking the final examination in the principal subject, in all cases in which the subsidiary subject is ancillary to the principal subject.

(g) In estimating the attainments of the various candidates in any subject the Examiners may take into account the duly attested records of their practical work and any printed or written dissertation embodying the results of original work that may be submitted.

REGULATION AS TO POST-GRADUATION EXAMINATIONS MADE BY THE SENATE, WITH THE APPROVAL OF THE UNIVERSITY COURT, ON 9TH MAY, 1912.

*A Bachelor of Science in Pure Science may after graduation present himself for examination in any subject of the curriculum in Pure Science other than that which he professed as Principal Subject for his degree, provided that he has attended the prescribed courses of study in the subject. The examination shall be of the scope and standard prescribed for a Principal Subject. A candidate shall not be qualified to compete for prizes, bursaries, or scholarships awarded on the results of such examination. The fee for examination in each subject is three guineas.*

X. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint, and in every case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XI. A candidate for the degree of Bachelor of Science shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. It is competent to the Examiners for the degree of Bachelor of Science to report that a candidate has passed with special distinction in one or more of the subjects professed by him: and in such a case a diploma shall be given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.<sup>1</sup>

#### DEGREE IN APPLIED SCIENCE.

XIII. Degrees in Applied Science may be instituted and conferred

<sup>1</sup> The following deliverance of the Faculty of Science was approved by the Senate on 17th February, 1916:—A candidate may in special circumstances with the consent of the Senate, present himself in more than one subject, each professed as a principal subject, and the candidate shall in that case be examined in each subject in the scope and on the standard required when a subject is chosen alone as a principal subject. It shall then be competent for the Examiners to report that the candidate has passed with special distinction in one or more of the subjects in which he has thus been examined as principal subjects. But distinction shall in no case be awarded to a candidate in a subject taken as a subsidiary subject.

according to regulations to be laid down in special Ordinances applicable to each University by the Commissioners under the Universities (Scotland) Act, 1889; or after the expiry of their powers by the University Court in each University.

XIV. The provisions of Sections II. to VIII. of this Ordinance inclusive, in so far as they relate to the Preliminary and First Science Examinations, shall be applicable in all respects to degrees in Applied Science instituted as aforesaid, except where special provision is made to the contrary in the special Ordinances aforesaid.

#### DOCTORATE OF SCIENCE.

XV. Graduates of any University who have held the degree of Bachelor of Science for a term of five years, may offer themselves for the degree of Doctor of Science in the same University.

XVI. A candidate for the Degree of Doctor of Science shall present a thesis or a published memoir or work<sup>1</sup> to be approved by the Senatus (on the recommendation of the Faculty of Science when duly constituted): Provided that, if required by the Senatus, the candidate shall also be bound to pass such an examination as may from time to time be determined. [This examination is to be conducted by Examiners appointed under University Court Ordinance No. XXVI., Section X. See p. 344.]

The thesis shall be a record of original research undertaken by the candidate, and shall be accompanied by a declaration, signed by him, that the work has been done and the thesis composed by himself.<sup>2</sup>

#### GENERAL.

XVII. A student who, at the time when this ordinance shall come into operation, shall have completed a part of his course of study with a view to graduation in Science in any of the Scottish Universities under regulations in force at the time in such University, and shall thereafter complete his course of study and pass the necessary examinations in conformity with such regulations,<sup>3</sup> or with the provisions of this ordinance, may become a candidate for the Degree of Bachelor of Science.

XVIII. The Degrees of Bachelor and Doctor of Science shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XIX. This ordinance came into force on 1st October, 1892.

#### OUTLINE OF EXAMINATIONS FOR B.SC. IN PURE SCIENCE.

##### *First Examination.*

MATHEMATICS—As for M.A. Single-Course Students: see p. 269.

ZOOLOGY—see p. 270. BOTANY—see p. 270.

<sup>1</sup> The Thesis must be lodged on or before 11th January.

<sup>2</sup> Each successful Candidate for the Degree of D.Sc. is required to furnish to the University a certain number of copies of his Thesis, either printed or satisfactorily multiplied from a type-written copy, the number of copies in each case to be fixed by the Senate.

<sup>3</sup> Students who began their course previous to 1890 may qualify themselves for the Degree of B.Sc. under the old regulations, which are given in the *University Calendar* for 1884-85; those who began in 1890, or 1891, or 1892 may qualify under the regulations contained in the *Calendar* for 1892-93.

**NATURAL PHILOSOPHY**—As for M.A. Single-Course Students: see p. 269. (*N.B.*—The qualifying courses approved by the Senate include Laboratory Work, see p. 111. Candidates are reminded that the qualifying course of Laboratory Work in Natural Philosophy must be completed previous to admission to the Degree Examination.)

**CHEMISTRY**—see p. 270.

### *Final Examination.*

**MATHEMATICS**—see p. 278 (Honours in Arts).

**NATURAL PHILOSOPHY**:—

*A. As a Principal Subject.*—The subjects of examination and the regulations regarding professions are the same as those for M.A. with Honours. See p. 279.

*B. As a Subsidiary Subject.*—As for M.A. Double-Course Students. See p. 269.

(As to qualifying courses, see p. 111.)

### **ASTRONOMY.**

*A. As a Subsidiary Subject.*—The examination is partly written and partly practical. In the written examination the candidate has to show thorough knowledge of Spherical Astronomy as treated in Class B of the Professor's lectures and of Popular Astronomy, and comprehension of the principles developed in the lectures in Class A on Celestial Dynamics. The practical examination embraces calculation of the ephemeris of a planet (which can be made at any time at home), and the determination of time, azimuth, and latitude by transit instrument, theodolite, and sextant. Also see p. 122.

*B. As the Principal Subject.*—In addition to (*A*) the candidate is expected to profess additional chapters of Celestial Dynamics or the Professor's lectures as delivered in Class A in alternate years. He has also to calculate an orbit from observations or the perturbations of an orbit by Mechanical Quadrature, (at home), and to undertake additional observations.

### **CHEMISTRY.**

*A. As the Principal Subject.*—The course requires a minimum of two academical years from the time of passing the First Science Examination.

The following courses of lectures are obligatory:

1. Physical Chemistry (40 lectures).
2. Organic Chemistry (40 lectures).
3. Inorganic Chemistry (40 lectures).
4. Metallurgical Chemistry (Course B, 25 lectures).

In addition optional courses are provided in Radioactivity, History of Chemistry, Metallurgical Chemistry (Course A), and additional Organic Chemistry, together with short courses on special subjects from time to time, designed particularly for students aiming at special distinction.

The Practical Laboratory Work in connexion with the above covers a total period of at least 40 weeks, with a minimum of  $2\frac{1}{2}$  hours per day, and includes Quantitative Analysis, Organic Preparations, and the methods of Physical Chemistry.

The examination is held twice a year, in April and October, and consists of three papers, in Physical, Organic, and Inorganic Chemistry respectively. The Practical Examination will include Qualitative and Quantitative Analysis, the preparation and identification of Organic compounds, and the methods of Physical Chemistry.

As a guide to those commencing their Course the following time-table is suggested. Students are advised to commence their Course in the Summer Session if possible.

	WINTER SESSION.		SUMMER SESSION.
	<i>First Half.</i>	<i>Second Half.</i>	
First Year.	PHYSICAL CHEMISTRY LECTURES. Practical Quantitative Analysis.		Practical Quantitative Analysis.  ORGANIC CHEMISTRY LECTURES. Practical Organic Chemistry.
Second Year.	INORGANIC CHEMISTRY LECTURES. Practical Physical Chemistry. Metallurgy (Course B).  SPECIAL ORGANIC LECTURES.		Radioactivity—in whichever year held.

*B. As a Subsidiary Subject.*—According to the nature of the principal subject, one of the following four branches may be taken :

(1) Physical Chemistry; (2) Organic Chemistry; (3) Inorganic Chemistry; (4) Metallurgical Chemistry. For the first three branches the Lecture Courses are the same as (1), (2) and (3) of the preceding paragraph. In Metallurgical Chemistry Lecture Courses A and B are taken.

The Practical Laboratory Work covers a total period of at least 20 weeks, with a minimum of  $2\frac{1}{2}$  hours per day, of which the first part consists of Quantitative Analysis, which must be taken by all, whichever branch is offered, and the second of Laboratory Exercises in the special branch offered. In branch (3) the second part consists of Mineral Analysis and Assaying.

The examination is held twice a year, in April and October, and consists of one paper in the branch offered, together with a Practical Examination in Qualitative and Quantitative Analysis and in the special branch offered.

#### HUMAN ANATOMY.

Candidates for the final B.Sc. in Anatomy will be required to show a sound practical knowledge of Human Anatomy. When the subject is professed as a *Principal Subject* the candidate will be expected to show, in addition, a competent knowledge of Human Embryology and Morphology and of Physical Anthropology. When the subject is taken as a *Subsidiary Subject* the candidate will be required to pass on an honours standard in Embryology, Physical Anthropology, or some branch of Anatomy cognate with his principal subject.

The Professor should be consulted as to the course of study to be followed, and the books to be read in each individual case.

#### PHYSIOLOGY.

A candidate for the final B.Sc. in Physiology as chief subject will be expected to show a sound knowledge of General Physiology, and in addition must specialise on one or more of the following branches of the subject:

(1) Physiological Chemistry. (2) Digestion and Metabolism. (3) Circulation and Respiration. (4) The Neuro-muscular System. (5) The Special Senses and Experimental Psychology. The Professor should be consulted as to the books to be read upon each branch of the subject.

Candidates are expected to have a full knowledge of the special department chosen.

The Examination consists of written papers and of practical and oral examinations. The duly attested laboratory note-books of the candidate and any records of original work presented will be considered.

The practical examination will embrace (a) Physiological Chemistry, (b) Histology, and (c) Experimental work on General Physiology, such as is overtaken in the Advanced Practical Class, and will have special reference to the particular branch of the subject selected by the candidate.

Candidates taking Physiology as a subsidiary subject are expected to show a knowledge of the essentials of General Physiology and a more intimate knowledge of those parts of the subject which bear upon their chief subject. The range of this more special work should be decided in consultation with the Professor.

#### GEOLOGY.

Candidates for the final B.Sc. in Geology will be required to show somewhat fuller knowledge of the subjects enumerated at p. 270, and in addition a more advanced knowledge of the principles and methods of petrography; the methods of palaeontology, as illustrated by the study of the fossils of the South-Western Scotland; the stratigraphy of Scotland with especial reference to Western Scotland and a knowledge of

the principles of mining geology, including the study of ores and the chief economic mineral deposits, theories of Ore Deposition, the classification of ores, and the characters of some leading mining fields.

The essential laboratory text-book is *Cole's Aids in Practical Geology*, but candidates are expected to have read selected chapters from advanced text-books, general treatises and special memoirs, of which a list is supplied at the beginning of each session.

#### ZOOLOGY, INCLUDING COMPARATIVE ANATOMY.

##### As "Principal Subject."

Candidates are expected to show a general knowledge of the classification of the Animal Kingdom and of the structural, developmental, and other features characteristic of its subdivisions, together with a knowledge of the more general problems of Zoology, *e.g.* Evolutionary Theory, including Variation and Heredity, the principles of Zoogeography, the main data regarding the processes of maturation and conjugation of the germ cells, etc. Special lectures will be given by the Professor and other members of the staff upon such general portions of the subject.

The Examination is such as to test the general attainments of the candidate in Zoology while special stress is laid on such parts of the subject as have been dealt with in the various courses of instruction in the department during the preceding two years.

There is a Practical Examination, part of which is *viva voce*, in which in addition to their general knowledge of the subject candidates are expected to show skill in dissection and other methods of laboratory technique.

##### As a "Subsidiary Subject."

In addition to an elementary knowledge of the subject generally, candidates are expected to display knowledge on an Honours standard of some restricted part of the subject, chosen with due regard to the nature of the Candidate's principal subject and after consultation with the Professors concerned.

The following text-books are recommended in addition to those used by the elementary class:—

*Text-book of Zoology* by A. Sedgwick; *Comparative Anatomy of Vertebrates* by Wiedersheim; *Embryology of Invertebrates* by MacBride; *Embryology of the Lower Vertebrates* by Graham Kerr.

For reference in regard to special groups, *The Cambridge Natural History*, Lankester's *Zoology*, and Special Memoirs as recommended in connexion with the various courses.

Students are further recommended to read Weismann's *Evolution Theory*, Darwin's *Origin of Species*, and Kellicott's *General Embryology*.

#### BOTANY.

Candidates for the Final B.Sc. Examination in Botany will be expected to show an adequate knowledge of the External Morphology, Anatomy, and Physiology of Plants, and of the leading features in their Geological History. Also a general knowledge of the leading types, and classification of the main groups of Algæ, Fungi, Bryophyta, and Pteridophyta.

The syllabus of work in the course for B.Sc. (from April 1908 till further notice) may be obtained from the Registrar.

The following books are suggested:—As a general text-book, Strasburger's *Textbook of Botany*, latest Engl. Ed., or the *Chicago Textbook of Botany*, Coulter, etc., American Book Company. For more detailed information, especially of the Algae and Fungi, Warming's *Systematic Botany*. For use in the garden, especially for flowering plants, Willis' *Flowering Plants and Ferns*, 2nd Edn. For field work, Hooker's *Students' Flora of the British Islands*.

The reading of Candidates should also extend to more special treatises; such as Scott's *Studies in Fossil Botany*; Schimper's *Plant Geography*; Haberlandt's *Physiological Plant-Anatomy*; Bower's *Origin of a Land Flora*; Campbell's *Mosses and Ferns*; Jost's *Lectures on Physiology of Plants*, etc., as well as to original papers, such as are referred to in the bibliography of Strasburger's *Textbook*.

There will be two three-hour papers, and two practical examinations [three hours each].

Candidates will also be examined orally.

#### GEOGRAPHY.

Candidates for B.Sc. who profess Geography as principal subject will be expected to show a thorough knowledge of Regional and Practical Geography as given in the Ordinary Class and in the Advanced Class, Part I. They will also be required to show a special knowledge of at least two of those branches of the subject which are discussed in separate courses of study in the Advanced Class, Part II.

A Candidate taking Geography as subsidiary subject will be required to profess, in addition to the work of the Ordinary Class, a special knowledge upon the Honours standard of Regional and Comparative Geography and of some particular branch of the subject, cognate with the principal subject chosen. In every case the Lecturer should be consulted at the beginning of the session.

#### Degrees in Science in Engineering.

The following are the provisions of Ordinance No. 23, Glasgow No. 2:—

I. Two Degrees in Science in Engineering may be conferred by the University of Glasgow, viz., Bachelor of Science in Engineering<sup>1</sup> and Doctor of Science in Engineering.

II. Every candidate for the degree of Bachelor of Science in Engineering must pass the Preliminary Examination<sup>2</sup> prescribed by the Arts Ordinance (Regulations for degrees in Arts), and the conditions with respect thereto imposed by the said ordinance [see pp. 238-248] are applicable in all respects to this ordinance except as follows:—(1) French or German may be substituted for Latin or Greek [see also p. 240]; (2) *Mathematics must be passed on the higher standard*; (3) a degree in Arts (not being a degree *honoris causa tantum*) in any of the Uni-

<sup>1</sup> By order of the Council of the Institution of Civil Engineers the possession of the Degree of B.Sc. in Engineering will exempt candidates applying for election into the Institution as Associate Members from passing the examination prescribed by the Council.

<sup>2</sup> As to the fee payable for examination in a special subject, see footnote on page 287.

University Court Ordinance No. XXXIX, Glasgow No. 12 (Affiliation of the Royal Technical College, Glasgow).—See end of volume.

TABLE OF EXAMINATIONS FOR DEGREE OF B.Sc. IN PURE SCIENCE DURING SESSION 1918-19.

Names to be given in and Fees paid to the Registrar, <sup>1</sup> The University. Date. <sup>2</sup>	FEE.	DATES OF WRITTEN EXAMINATIONS AND HOURS AT WHICH THE DIFFERENT PAPERS WILL BE SET.	
		The Oral Examinations in Science follow the Written at dates to be arranged.	
		PAPERS WILL BE SET.	
From 19th to 30th August, 1918, both days inclusive.	£1 IS. FOR EACH SUBJECT UNTIL £6 6s. SHALL HAVE BEEN PAID.	Geography, - - - - -	Thursday, 19th Sept., 9-12 noon.
		Geography (Practical), - - - - -	Do., do., 2-5 p.m.
		Geography, - - - - -	Friday, 20th Sept., 9-12 noon and 2-5 p.m.
		Mathematics (Ord. and Hon.), - - - - -	Saturday, 21st Sept., 9-12 noon and 2-5 p.m.
		Anatomy, Part II., (Human Embryology), - - - - -	Monday, 23rd Sept., 9-12 noon.
		Anatomy, Part II. (Physical Anthropol.), - - - - -	Thursday, 26th Sept., 9-12 noon.
		Physiology, - - - - -	Do., do., 2-5 p.m.
		Astronomy, - - - - -	Friday, 27th Sept., 9-12 noon.
		Botany, - - - - -	Do., do., 9-12 noon.
		Organic Chemistry (Final Exam.), - - - - -	Do., do., 9-12 noon.
		Inorganic Chemistry (Final Exam.), - - - - -	Do., do., 2-5 p.m.
		Chemistry (First Exam.), - - - - -	Do., do., 2-5 p.m.
		Anatomy, Part I., - - - - -	Saturday, 28th Sept., 9-11 a.m.
		Zoology, - - - - -	Do., do., 9-12 noon.
		Physical Chemistry (Final Exam.), - - - - -	Do., do., 9-12 noon.
		Physiology, - - - - -	Do., do., 12-3 p.m.
		Astronomy, - - - - -	Monday, 30th Sept., 9-12 noon.
		Mathematics (Hon.), - - - - -	Do., do., 9-12 noon.
		Natural Philosophy (Ord. and Hon.), - - - - -	Friday, 4th Oct., 9-12 noon and 2-5 p.m.
		Zoology (Practical), - - - - -	Saturday, 5th Oct., 9 a.m.
		Natural Philosophy (Hon.), - - - - -	Do., do., 9-12 noon.
		Metall. Chemistry, - - - - -	Monday, 7th Oct., 9-12 noon.
		Geology, Paper I., - - - - -	Tuesday, 8th Oct., 9-12 noon.
		Geology, Practical, - - - - -	Do., do., 2-5 p.m.
		Geology, Paper II., - - - - -	Wednesday, 9th Oct., 9-12 noon.

<sup>1</sup> For Women students, Miss Melville, Queen Margaret College.<sup>2</sup> When Names are not given in and Fees are not paid within the stated dates, a late Entry Fee of Twenty Shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged. Late Entry Fees will not be accepted less than eight days before the date of Examination.

For Dates in regard to Science Preliminary Examination see page 245.

# TABLE OF EXAMINATIONS FOR DEGREE OF B.Sc. IN PURE SCIENCE.—Continued.

DATES OF EXAMINATIONS FOR B.Sc.

299

Names to be given in and Fees paid to the Registrar, <sup>1</sup> The University. Date, <sup>2</sup>	FEE.	The Oral Examinations in Science follow the Written at dates to be arranged.	
From 24th Feb. to 3rd March, 1919, both days inclusive.	£1 1s. FOR EACH SUBJECT UNTIL £6 6s. SHALL HAVE BEEN PAID.	Zoology, - - - - -	Friday, 21st March, 9-12 noon.
		Inorganic Chemistry (Final Exam.), -	Do., do., 2-5 p.m.
		Physical Chemistry (Final Exam.), -	Saturday, 22nd March, 9-12 noon.
		Anatomy, Part II. (Physical Anthropol.), -	Do., do., 9-12 noon.
		Botany, - - - - -	Do., do., 9-12 noon.
		Physiology, - - - - -	Do., do., 2-5 p.m.
		Anatomy, Part I., - - - - -	Monday, 24th March, 9-11 a.m.
		Physiology, - - - - -	Do., do., 12-3 p.m.
		Chemistry (First Exam.), - - - - -	Do., do., 2-5 p.m.
		Anatomy, Part II. (Human Embryology), -	Tuesday, 25th March, 9-12 noon.
		Organic Chemistry (Final Exam.), -	Do., do., 2-5 p.m.
		Astronomy, - - - - -	Do., do., 2-5 p.m.
		Astronomy, - - - - -	Thursday, 27th March, 9-12 noon.
		Metall. Chemistry, - - - - -	Do., do., 2-5 p.m.
		Zoology (Practical), - - - - -	Saturday, 29th March, 9 a.m.
From 5th to 9th May, 1919, both days inclusive.		Geology, Paper I., - - - - -	Do., do., 9-12 noon.
		Geology, Practical, - - - - -	Do., do., 2-5 p.m.
		Geology, Paper II., - - - - -	Monday, 31st March, 9-12 noon.
		Mathematics (Oral and Subsidiary), -	Thursday, 29th May, 9-12 noon and 2-5 p.m.
		Geography, - - - - -	Friday, 30th May, 2-5 p.m.
		Do., - - - - -	Saturday, 31st May, 9-12 noon.
		Do., - - - - -	Do., do., 2-5 p.m.
		Natural Philosophy (Oral and Subsidiary), -	Thursday, 5th June, 9-12 noon and 2-5 p.m.

<sup>1</sup> See Footnote on previous page.

<sup>2</sup> See Footnote on previous page.

For Dates in regard to Science Preliminary Examination see page 245.

versities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus Academicus, exempts from the Preliminary Examination; (4) the *Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before the candidate enters on his curriculum.*

III. Candidates must in the course of not less than three academical years attend at least the nine courses of instruction prescribed under Section IX.

IV. (1) Five of the nine courses must be taken in this University. One of these courses must be a course in Engineering.

(2) Four may be taken in other Universities or institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Engineering<sup>1</sup>: Provided that the fees for attendance at an approved institution in Glasgow or under a recognised teacher there shall not be less than the fees exigible for the corresponding courses in the University of Glasgow.

[V. It is competent to the University Court to admit to the examinations for the degree of Bachelor of Science in Engineering, and to graduation, any candidate who presents the diploma of the Glasgow and West of Scotland Technical College,<sup>2</sup> and who has passed the Preliminary Examination hereinbefore appointed: Provided that before such candidate shall be admitted to the Final Science Examination prescribed under Section XI. hereof:—

- (1) He shall, after having received the said diploma, have attended in this University at least three full courses, during at least one academical year; and of these courses one at least shall be in Engineering, *including Laboratory Practice.*<sup>3 4</sup>
- (2) He shall, after having received the said diploma, have attended in this University such courses as will, along with the classes taken at the said College for the said diploma, be equivalent to the whole courses for the curriculum hereinafter instituted.<sup>5]</sup>

VI. The University Court may make regulations to enable candidates not matriculated students of the University availing themselves of the permission to attend Lectures at approved institutions or by recognised teachers in Glasgow, to obtain on payment of a fee not exceeding in amount the Matriculation Fee paid by the students of the University, a right to the use of the Library of the University.

<sup>1</sup> Applications for the acceptance of such courses should be addressed to the Secretary of the University Court, The University, Glasgow. Each application must be accompanied by certificates of attendance, on prescribed forms to be obtained from the Secretary of the Court, and also by a printed Calendar or Prospectus.

<sup>2</sup> Since February, 1912, "The Royal Technical College, Glasgow."

<sup>3</sup> See second note on page 301.

<sup>4</sup> Candidates for the Degree of B.Sc. in Mining Engineering, who possess the Diploma of the Royal Technical College, Glasgow, may attend in the University, as their course in "Engineering, including Laboratory Practice," the Mining Classes I., II., III., and the Mining Laboratory (Mining Class IV.).

<sup>5</sup> Repealed by U.C. Ordinance XXXIX., Sect. XII.

VII. (1) It shall be the duty of the Senatus to determine from time to time the number of meetings of which a full course in any subject in Applied Science shall consist, and to report its determination to the University Court for its approval.

(2) The Senatus, with the approval of the University Court, may sanction half courses of not less than half the number of meetings which constitute a full course in the subject; and two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose by the same authority.

(3) It shall be the duty of the Professors and the Lecturers conducting courses qualifying for graduation in Applied Science annually before the end of each Winter Session to submit to the Joint Board of Studies in Applied Science a scheme specifying in each case what proportion of the courses it is proposed to devote to lectures, practical demonstrations, examinations, and tutorial work respectively. It shall also be the duty of the said Professors and Lecturers annually at the end of each Winter Session to submit to the said Joint Board of Studies, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next academical year.

(4) It shall be the duty of the Joint Board of Studies to consider these schemes and proposals, and any other matters relating to the subjects, extent, duration, hours, arrangement, and standard of the several courses proposed as qualifying for graduation in Applied Science, and to send reports thereon to the Senatus and to the Governors of the Royal Technical College, Glasgow. The Senatus shall transmit such reports, with any observations and recommendations it may think fit to make thereon, to the University Court. It shall be competent to the Governors of the College to communicate to the University Court such observations and recommendations as they may think fit to make on the reports framed by the Joint Board of Studies. The deliverance of the University Court shall be duly intimated to the Senatus and to the Governors of the College.<sup>1</sup>

VIII. The provisions of the preceding section do not apply to approved institutions or recognised teachers outside Glasgow; but the University Court shall not grant or continue recognition to any institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Glasgow.

IX. The subjects of study<sup>2</sup> shall be as follows:—

1. Mathematics, including Analytical Geometry, and Differential and Integral Calculus.

<sup>1</sup> Transferred from U.C. Ordinance XXXIX., Sect. VII.

<sup>2</sup> The words in *italics* in this and other sections are modifications which the University Court, on representations by the Senate, made by virtue of the power conferred upon the Court by Section XIV. of this Ordinance.

2. Natural Philosophy, including Applied Higher Mathematics.
3. Chemistry.
4. A course in the Physical Laboratory,<sup>1</sup> or in the Chemical Laboratory, or of Practical Chemistry.

and either :—

- 5, 6. Two courses in Engineering,<sup>1</sup> including Laboratory Practice.
- 7, 8. Two courses of practical work in Drawing.
9. A course in one of the following :—
  - (a) Astronomy and Geodesy.
  - (b) Geology and Mineralogy.
  - (c) Naval Architecture.
  - (d) Engineering Laboratory, Mechanical or Electrical (Special Course). [This laboratory course cannot be taken concurrently with either of the laboratory courses specified under 5, 6.]
  - (e) Electricity—Pure and Applied.
  - (f) *Mining Engineering* (Class I. or Class II.).
  - (g) *Metallurgical Chemistry*.
  - (h) *Any half-course of lectures in Engineering not already taken under 5, 6.*
  - (i) *Civil Engineering*.
  - (j) *Fuels and their Applications*.

or :—

- 5, 6. Two courses in Naval Architecture with Marine Engineering.
- 7, 8. Two courses of practical work in Ship and Engineering Drawing.
9. A course in Engineering, including Laboratory Practice.

Provided that during the three years immediately subsequent to the date on which this ordinance shall come into force, the courses in Engineering herein prescribed shall not necessarily include Laboratory Practice.

IXA.<sup>2</sup> *The following is the curriculum for the Degree of B.Sc. in Mining Engineering :—*

FIRST YEAR: *Mathematics (Ordinary); Natural Philosophy (Ordinary); Chemistry; Chemical Laboratory; Mining, Class I. (50 meetings).*

SECOND YEAR: *Engineering, Class I.; Engineering, Class II. or III.; Mining, Class II. (50 meetings); Drawing; Geology and Mineralogy.*

<sup>1</sup> The Physical Laboratory must have been taken previously by those who take Electrical Engineering under 5, 6.

<sup>2</sup> This curriculum, having been arranged by the Senate, was sanctioned by the University Court on 18th June, 1903, in virtue of the power belonging to the Court according to Section XIV. of this Ordinance.

THIRD YEAR: *Electrical Engineering, Class I.; Metallurgy; Metallurgical Laboratory; Mining, Class III. (25 meetings); Mining (Practical), Class IV. (25 meetings);*<sup>1</sup> *Engineering Laboratory; Mining Geology (50 meetings).*<sup>2</sup>

*Provided that practical work in a mine shall be required of every candidate for the Degree of B.Sc. in Mining Engineering to such an extent and under such regulations as the Senate, with the approval of the University Court, may from time to time appoint.*<sup>3</sup>

Under this proviso, the following regulations, proposed by the Senate, were approved by the University Court:

1. Practical work in a mine shall be required for two periods of three months each, and the candidate must not be under sixteen years of age at the time of commencing this practical work.

2. The candidate must produce evidence satisfactory to the Senate that he has fulfilled this requirement.<sup>4</sup>

X. (1) There shall be a First Science Examination<sup>5</sup> in subjects 1, 2, 3, and 4 of the section immediately preceding.

(2) The examination in (1) Mathematics and (2) Natural Philosophy shall include the higher branches of Mathematics specified under Mathematics and the higher Mathematics included under Natural Philosophy in the section immediately preceding;<sup>6</sup> but it shall be optional to candidates to pass the same examination in either or both of these subjects as that required for the Ordinary Degree of Master of Arts: Provided that in that case they shall be required before graduation to pass a subsequent examination in the remainder of the subject or subjects.

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

XI. (1) There shall be a Final Science Examination<sup>6</sup> in subjects 5, 6, 7, 8, and 9 of Section IX. hereof; and, if required, in the higher branches of Mathematics as provided in Section X., Sub-section 2 hereof. \_

<sup>1</sup> These six words were added by the University Court on 9th April, 1908.

<sup>2</sup> The last four words were added by the University Court on 11th April, 1907.

<sup>3</sup> This amending paragraph was added by the University Court on 21st July, 1904.

<sup>4</sup> The Secretary of State for the Home Department, on 29th September, 1904, approved of the University of Glasgow in respect of the Degree of B.Sc. in Mining Engineering and of the Certificate of Proficiency in Mining Engineering for the purposes of the Coal Mines Regulation Act (1887) Amendment Act, 1903.

<sup>5</sup> The Senate has authorised the Examiners in Mathematics and Natural Philosophy to return as having passed in the elementary part of either or both of these subjects any candidate who has attempted the examination in the higher branches of either or both and has failed to pass, provided that in the opinion of the Examiners the candidate has attained a standard equivalent to that required for the ordinary Degree of M.A.

<sup>6</sup> This examination includes practical work in the subjects admitting of, or requiring it: Provided that, in the case of Engineering Students, a practical examination shall be passed in Chemistry or Physics according as the Chemical or the Physical Laboratory Course has been chosen as part of the qualifying curriculum.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the First Science Examination and have attended the required courses in the subject or subjects professed: Provided that for this purpose subjects 5, 6, 7, and 8, specified in Section IX. hereof shall be deemed one subject.

The Senate has made the following regulation: Any Bachelor of Science in Engineering may be admitted to examination in one or more of the subjects enumerated in Section IX. not taken by him in his undergraduate course, and should he attain therein the standard required of candidates for that degree, he shall be entitled to receive a certificate to that effect; but he is not eligible for the award of "special distinction."<sup>1</sup>

XIA.<sup>2</sup> *The following is the Scheme of Examinations for the Degree of B.Sc. in Mining Engineering:—*

(1) *There shall be a First Science Examination in Mathematics (Ordinary), Natural Philosophy (Ordinary), Chemistry, and Chemical Laboratory, and a Final Science Examination in all the other subjects.*

(2) *Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed; and in any one or more of the subjects of the Final Science Examination at any examination held after they have passed the First Science Examination, and have attended the required course or courses in the subject or subjects professed: provided that for this purpose Mining I., II., and III. shall be deemed one subject.*

The examination in the course of "Geology and Mineralogy" taken in the second year will include one written paper and a paper of practical questions; the examination in "Mining Geology" dealing with the course taken in the third year will include one written paper and a paper of practical questions.

XII. A candidate for the degree of Bachelor of Science in Engineering shall not be deemed to have attended a class as part of the curriculum for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

XIII. It is competent to the Examiners<sup>3</sup> for the degree of Bachelor of Science in Engineering to report that a candidate has passed with special distinction in one or more of the subjects professed by him; and in such a case a diploma shall be given setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

XIV. It shall be competent to the University Court to modify from time to time the provisions as to curriculum hereinbefore contained, in case

<sup>1</sup> Candidates must have attended qualifying classes in the proposed subjects of examination, and must present the same certificates as are required in Section XII. of this Ordinance. The Examination Fee for each subject is One Guinea. Candidates are required to enter their names and to pay this fee within the dates applicable in these respects to the Science Degree Examinations.

<sup>2</sup> This amending section was added by the University Court on 8th April, 1909.

<sup>3</sup> See U.C. Ordinance XXXIX., Sect. VIII.

such modification shall be rendered desirable by the development of Applied Science in relation to Engineering, or by reason of further provision having been made within or without the University for the study of any other special branch of Applied Science: Provided that in no case shall the number of full courses of study required be less than the number required for the Degree of Bachelor of Science in Pure Science, as specified in Ordinance No. 12 (General No. 7—Regulations for Degrees in Science).<sup>1</sup>

#### DOCTORATE OF SCIENCE IN ENGINEERING.

XV. Graduates of the University of Glasgow who have held the degree of Bachelor of Science in Engineering for a term of five years may offer themselves for the degree of Doctor of Science in Engineering in the said University.

XVI. A candidate for the Degree of Doctor of Science in Engineering shall present a thesis or a published memoir or work<sup>2</sup> to be approved by the Senatus (on the recommendation of the Faculty of Science when duly constituted): Provided that, if required by the Senatus, the candidate shall be bound to pass such an examination as may from time to time be determined.

The thesis shall be a record of original research undertaken by the candidate, or of important engineering work designed by himself, and actually carried out, and shall be accompanied by a declaration, signed by him, that these conditions have been satisfied.<sup>3</sup>

#### GENERAL.

XVII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this ordinance, and who have passed the necessary examinations, shall be entitled to receive the degrees of Bachelor of Science in Engineering and Doctor of Science in Engineering, as the case may be, on payment of the fees required.

XVIII. A student who, at the time when this ordinance shall come into operation, shall have completed a part of his course of study with a view to graduation in Science in Engineering in the University of Glasgow, under regulations in force at the time therein, and shall thereafter complete his course of study and pass the necessary examinations in conformity with such regulations,<sup>4</sup> or with the provisions of this Ordinance, may become a candidate for the degree of Bachelor of Science in Engineering.

XIX. The degrees of Bachelor and Doctor of Science in Engineering shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XX. This Ordinance came into force from and after the date on which it was approved by Her Majesty in Council, viz., 26th June, 1893.

<sup>1</sup> As altered by U.C. Ordinance XXXIX., Sect. XIII.

<sup>2</sup> The Thesis must be lodged on or before 11th January.

<sup>3</sup> See second note on page 292.

<sup>4</sup> Students who began their course previous to 1890 may qualify themselves for the Degree of B.Sc. under the old regulations, which are given in the *University Calendar* for 1884-85; those who began in 1890, or 1891, or 1892 may qualify under the regulations contained in the *Calendar* for 1892-93.

UNIVERSITY OF GLASGOW  
AND  
ROYAL TECHNICAL COLLEGE, GLASGOW.

List of Courses approved under Section V. of the Affiliation Ordinance for Engineering (Ordinance No. 23, Section IX.).

R. T. COLLEGE DAY COURSES.	UNIVERSITY COURSES TO WHICH EQUIVALENT.
Mathematics I.	Mathematics V.
Mathematics II.	Mathematics VI.
Natural Philosophy I.	Natural Philosophy (Ordinary).
Natural Philosophy II.	Natural Philosophy B.
Inorganic Chemistry I.	{ Chemistry (for Students of En-
Physical Laboratory.	gineering).
Chemical Laboratory.	Physical Laboratory.
Mechanics I. with Laboratory.	Chemical Laboratory.
Motive Power Engineering I.	{ Engineering Class I. with Labora-
Mechanics II. with Laboratory.	tory.
Motive Power Engineering II.	{ Engineering Class IV. with Labo-
Mechanics II. with Laboratory.	ratory.
Civil Engineering I. and II.	{ A Course of Engineering with
Motive Power Engineering I. and II.	Laboratory.
<sup>1</sup> Electrical Engineering I. and II.	Engineering Class III.
with Laboratory.	Electrical Engineering I. and II.
Engineering Drawing I.	with Laboratory.
Mechanical Engineering Drawing	Engineering Drawing.
and Design II.	{ Engineering Drawing.
Mechanical Engineering Drawing	{ Engineering Drawing.
and Design III.	{ Engineering Drawing.
Civil Engineering Drawing and	{ Engineering Drawing.
Design.	{ Engineering Drawing.
Electrical Engineering Drawing	{ Engineering Drawing.
and Design.	{ Engineering Drawing.
Geology I. with Laboratory.	Geology (for Engineering).
Engineering Laboratory, Special	Engineering Laboratory, Special
Course, Mechanical or Electrical.	Course, Mechanical or Electrical.
Mining Engineering I. or II.	Mining Class I. or II.
Surveying and Levelling, Lectures	{ Engineering Class II.
and Practical Work.	{ Engineering Class II.
Mine Surveying, Lectures and	Metallurgy.
Practical Work.	{ A Course under par. (9).
Metallurgy I.	{ A Course under par. (9).
Fuels and their Applications, Lec-	
tures and Laboratory.	
<sup>2</sup> Civil Engineering I. and II.	

For Mining (Ordinance No. 23, Section IXA.)

Mathematics I.	Mathematics (Ordinary).
Natural Philosophy I.	Natural Philosophy (Ordinary).
Inorganic Chemistry I.	Chemistry (for Engineering).

<sup>1</sup> Provided that College Class Mechanics II. or University Engineering Class IV. is also taken.

<sup>2</sup> If not included in Engineering Group for Degree Examination.

## R. T. COLLEGE DAY COURSES.

Chemical Laboratory.  
 Mining I. and II.  
 Mining Laboratory.  
 Mechanics I. and Motive Power  
 Engineering I.  
 Mine Surveying or Civil Engineer-  
 ing I.  
 Engineering Drawing I.  
 Geology I. with Laboratory.  
 Electrical Engineering I.  
 Metallurgy I.  
 Metallurgical Laboratory.  
 Engineering Laboratory.  
 Geology and Mineralogy II.

UNIVERSITY COURSES TO WHICH  
EQUIVALENT.

Chemical Laboratory.  
 Mining Classes I., II. and III.  
 Mining (Practical) Class IV.  
 Engineering Class I.  
 Engineering Class II. or III.  
 Drawing.  
 Geology and Mineralogy I.  
 Electrical Engineering Class I.  
 Metallurgy.  
 Metallurgical Laboratory.  
 Engineering Laboratory.  
 Mining Geology.

## CERTIFICATES OF PROFICIENCY IN ENGINEERING SCIENCE.

Certificates of Proficiency in Engineering Science will be granted to students who shall have gone through the following course of study, practical work, and examinations, to the satisfaction of the Board of Examiners:—

1. Mathematics, including Analytical Geometry and Differential and Integral Calculus.
2. Natural Philosophy—the work of the Ordinary Class.
3. Chemistry.

And either:—

- 4, 5. Two courses in Engineering, including Laboratory Practice.
- 6, 7. Two courses of practical work in Drawing.
8. A course in one of the following:—

- (a) Astronomy and Geodesy.
- (b) Geology and Mineralogy.
- (c) Naval Architecture.
- (d) Engineering Laboratory, Mechanical or Electrical (special course). [This laboratory course cannot be taken concurrently with either of the laboratory courses specified under 4, 5.]
- (e) Electricity—Pure and Applied.
- (f) Mining Engineering (Class I. or Class II.).
- (g) Metallurgical Chemistry.
- (h) Any half course of lectures in Engineering not already taken under 4, 5.

Or:—

- 4, 5. Two courses in Naval Architecture with Marine Engineering.
- 6, 7. Two courses of practical work in Ship and Engineering Drawing.
8. A course in Engineering, including Laboratory Practice.

Certificates of Proficiency in Mining Engineering will be granted to students who shall have gone through the following course of

# TABLE OF EXAMINATIONS FOR DEGREE OF B.SC. IN ENGINEERING DURING SESSION 1918-19.

308

DATES OF EXAMINATIONS FOR B.SC.

Names to be given in and Fees paid to the Registrar, The University. Date. <sup>1</sup>	FEE.	DATES OF WRITTEN EXAMINATIONS AND HOURS AT WHICH THE DIFFERENT PAPERS WILL BE SET.	
		The Oral Examinations in Science follow the Written at dates to be arranged.	
From 19th to 30th August, 1918, both days inclusive.	£1 1s. FOR EACH SUBJECT UNTIL £6 6s. £1 1s. FOR EACH SUBJECT BEYOND PAID.	SEPTEMBER—OCTOBER, 1918.	
		Mathematics, - - - - -	Saturday, 21st Sept., 9-12 noon and 2-5 p.m.
		Mathematics (Special for Engineering), - - -	Do., do., 9-12 noon.
		Civil Engineering, - - - - -	Do., do., 2-5 p.m.
		Astronomy, - - - - -	Friday, 27th Sept., 9-12 noon.
		Chemistry, - - - - -	Do., do., 2-5 p.m.
		Electrical Engineering, Paper II., - - -	Saturday, 28th Sept., 9-12 noon.
		Astronomy, - - - - -	Monday, 30th Sept., 9-12 noon.
		Engineering Laboratory, - - - - -	Do., do., 9-12 noon.
		Electrical Engineering, Paper I., - - -	Do., do., 2-5 p.m.
		Physical Laboratory, - - - - -	Tuesday, 1st Oct., 9 a.m.
		Engineering Drawing, - - - - -	Do., do., 9-12 noon and 2-5 p.m.
		Naval Architecture, - - - - -	Wed., 2nd Oct., 9-12 noon.
		Engineering, Paper I., - - - - -	Do., do., 10-12.30 p.m.
		Engineering, Paper II., - - - - -	Do., do., 2-5 p.m.
		Engineering, Paper IV., - - - - -	Thursday, 3rd Oct., 9-12 noon.
		Natural Philosophy, - - - - -	Friday, 4th Oct., 9-12 noon and 2-5 p.m.
		Natural Philosophy (Special for Engineering), - - - - -	Do., do., 9-12 noon.
		Mining III., - - - - -	Do., do., 9-12 noon.
		Mining Laboratory, - - - - -	Do., do., 2-4 p.m.
		Mining II., - - - - -	Saturday, 5th Oct., 9-12 noon.
		Mining I., - - - - -	Do., do., 2-5 p.m.
		Metallurgical Chemistry, - - - - -	Monday, 7th Oct., 9-12 noon.
		Engineering, Paper III., - - - - -	Do., do., 2-5 p.m.
		Geology, Paper I., - - - - -	Tuesday, 8th Oct., 9-12 noon.
		Geology, Practical, - - - - -	Do., do., 2-5 p.m.
		Geology, Paper II., - - - - -	Wed., 9th Oct., 9-12 noon.
		Electricity (Pure and Applied), - - -	Do., do., 9-12 noon.
		Fuels and their Applications, - - -	Do., do., 9-12 noon.

<sup>1</sup> When names are not given in and Fees are not paid within the stated dates, a late Entry Fee of Twenty Shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged. Late Entry Fees will not be accepted less than eight days before the date of Examination.

For Dates of the Preliminary Examinations see page 245.

# TABLE OF EXAMINATIONS FOR DEGREE OF B.SC. IN ENGINEERING DURING SESSION 1918-19.

DATES OF EXAMINATIONS FOR B.SC.

309

Names to be given in and Fees paid to the Registrar, The University. Date. <sup>1</sup>	FEE.	DATES OF WRITTEN EXAMINATIONS AND HOURS AT WHICH THE DIFFERENT PAPERS WILL BE SET.		
		The Oral Examinations in Science follow the Written at dates to be arranged.		
		MARCH—APRIL, 1919.		
From 24th Feb. to 3rd March, 1919, both days inclusive.	£1 1s. FOR EACH SUBJECT UNTIL £6 6s. £1 1s. FOR EACH SUBJECT PAID.	Mathematics,	Friday, 21st March,	9-12 noon and 2-5 p.m.
		Mathematics (Special for Engineering),	Do., do.,	9-12 noon.
		Civil Engineering,	Do., do.,	2-5 p.m.
		Natural Philosophy,	Sat., 23rd March,	9-12 noon and 2-5 p.m.
		Natural Philosophy (Special for Engineering),	Do., do.,	9-12 noon.
		Physical Laboratory,	Mon., 24th March,	9 a.m.
		Engineering Laboratory,	Do., do.,	9-12 noon.
		Chemistry,	Do., do.,	2-5 p.m.
		Electrical Engineering, Paper I.,	Do., do.,	2-5 p.m.
		Naval Architecture,	Tues., 25th March,	9-12 noon.
		Engineering Drawing,	Do., do.,	9-12 noon and 2-5 p.m.
		Astronomy,	Do., do.,	2-5 p.m.
		Engineering, Paper I.,	Wed., 26th March,	10-12.30 p.m.
		Engineering, Paper II.,	Do., do.,	2-5 p.m.
		Engineering, Paper IV.,	Thurs., 27th March,	9-12 noon.
		Mining III.,	Do., do.,	9-12 noon.
		Astronomy,	Do., do.,	9-12 noon.
		Metallurgical Chemistry,	Do., do.,	2-5 p.m.
		Mining II.,	Friday, 28th March,	9-12 noon.
		Mining I.,	Do., do.,	2-5 p.m.
		Geology, Paper I.,	Sat., 29th March,	9-12 noon.
		Geology, Practical,	Do., do.,	2-5 p.m.
		Geology, Paper II.,	Monday, 31st March,	9-12 noon.
		Electrical Engineering, Paper II.,	Do., do.,	9-12 noon.
		Engineering, Paper III.,	Do., do.,	2-5 p.m.
		Electricity (Pure and Applied),	Tuesday, 1st April,	9-12 noon.
		Fuels and their Applications,	Do., do.,	9-12 noon.
		Mining Laboratory,	Do., do.,	2-4 p.m.

<sup>1</sup> When names are not given in and Fees are not paid within the stated dates, a late Entry Fee of Twenty Shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged. Late Entry Fees will not be accepted less than eight days before the date of Examination.

For Dates of the Preliminary Examinations see page 245.

study, practical work, and examinations, to the satisfaction of the Board of Examiners :—

FIRST YEAR: Mathematics (Ordinary); Natural Philosophy (Ordinary); Chemistry; Chemical Laboratory; Mining, Class I. (50 meetings).

SECOND YEAR: Engineering, Class I.; Engineering, Class II. or III.; Mining, Class II. (50 meetings); Drawing; Geology and Mineralogy.

THIRD YEAR: Electrical Engineering, Class I.; Metallurgy; Metallurgical Laboratory; Mining, Class III. (25 meetings); Mining (Practical), Class IV. (25 meetings); Engineering Laboratory; Mining Geology (50 meetings).

No candidate is admitted to the special examination for either certificate, in any department, till he has given regular attendance upon and duly performed the work of the prescribed course of study in that department.

ROYAL TECHNICAL COLLEGE, GLASGOW.—*Attendance in approved classes of the First Year at the Royal Technical College will be accepted as part of any curriculum for a Certificate of Proficiency. The remainder of the curriculum must be taken at Gilmorehill.*

Candidates are not required to pass the Preliminary Examination.

UNIVERSITY COURT ORDINANCE No. XLVII. (GLASGOW No. 14).

#### INSTITUTION OF A DEGREE IN SCIENCE IN APPLIED CHEMISTRY.

At Glasgow the tenth day of December, Nineteen Hundred and fourteen years.

Whereas by the Universities (Scotland) Act, 1889, the Commissioners under the said Act were empowered by Section 14, subsection (5), to regulate, *inter alia*, the granting of degrees and the institution of new degrees :

And whereas by Ordinance No. 12 [General No. 7—Regulations for Degrees in Science] the said Commissioners instituted the degrees of Bachelor of Science and Doctor of Science in Pure Science, to be conferred by each of the Universities of Scotland, and ordained in Section XIII. of the said Ordinance that Degrees in Applied Science might be instituted and conferred according to Regulations to be laid down in special Ordinances applicable to each University by the said Commissioners or after the expiry of their powers by the University Court in each University :

And whereas the powers conferred by the said Act on the said Commissioners have expired :

And whereas by University Court Ordinance No. XXXIX. [Glasgow No. 12—Affiliation of the Royal Technical College, Glasgow], which received the approval of His Majesty in Council on the seventh day of

March, 1913, it is ordained, *inter alia*, that for the purposes of the said Ordinance certain provisions therein contained shall apply to such Regulations for Degrees in Applied Science made in pursuance of the said Ordinance or of Ordinance No. 12, Section XIII., aforesaid, as the University Court shall determine :

And whereas it is expedient, in order to improve and encourage education in Applied Chemistry, that a Degree in Science in Applied Chemistry should be instituted in the University of Glasgow :

Therefore the University Court of the University of Glasgow hereby statute and ordain as follows :

I. A Degree of Bachelor of Science in Applied Chemistry may be conferred by the University of Glasgow.

II. Every candidate for the Degree of Bachelor of Science in Applied Chemistry must pass the Preliminary Examination prescribed by University Court Ordinance No. XXIII. [Glasgow No. 6—Regulations for Degrees in Arts], and the conditions with respect thereto imposed by the said Ordinance shall be applicable in all respects to the candidates for the Degree of Bachelor of Science in Applied Chemistry except as follows : (1) French or German may be substituted for Latin or Greek ; (2) Mathematics shall be passed on the Higher standard ; (3) a degree in Arts (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the *Senatus Academicus*, shall exempt from the Preliminary Examination ; (4) the Preliminary Examination must be passed before the candidate enters on his curriculum.

If a student, before passing the full Preliminary Examination, has attended a course of instruction qualifying for graduation, the Senate may, on special cause shown, permit him to count such course for purposes of graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senate may appoint, and in every such case the Senate shall make a report to the University Court setting forth the reasons for the relaxation.

III. Candidates must in the course of not less than four academical years attend at least the nine courses of instruction prescribed under Section IX. of this Ordinance.

IV. (1) Five of the nine courses must be taken in the University of Glasgow.

(2) Four of the nine courses may be taken in other Universities or Institutions approved by the University Court or under Teachers recognised by the University Court for purposes of graduation in Science in Applied Chemistry : Provided that the fees for attendance at an approved Institution in Glasgow or under a recognised Teacher there shall not be less than the fees exigible for the corresponding courses in the University of Glasgow.

V. The University Court may make Regulations to enable candidates, not matriculated students of the University of Glasgow, availing themselves of the permission to attend courses of instruction at approved Institutions or by recognised Teachers in Glasgow, to obtain, on payment of a fee not exceeding in amount the Matriculation Fee paid by the students of the University, a right to the use of the Library of the University.

VI. If and when the University Court shall have determined that the provisions of University Court Ordinance No. XXXIX. [Glasgow No. 12], Section V., shall apply to the Regulations for the Degree of Bachelor of Science in Applied Chemistry herein contained, the subsequent Sections of the said Ordinance shall come into operation and have effect with regard to Applied Chemistry as a branch of Applied Science within the meaning of the said Ordinance.

VII. The provisions of Section VII. of University Court Ordinance No. XXXIX. [Glasgow No. 12] shall not apply to approved Institutions or recognised Teachers outside Glasgow; but the University Court shall not grant or continue recognition to any Institutions or Teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Glasgow or in a College affiliated thereto.

VIII. Candidates must be matriculated students of the University when they present themselves for examination or graduation.

IX. The subjects of study shall be as follows :

1. Mathematics.

2. Natural Philosophy (with Laboratory instruction).

3. Chemistry (with Laboratory instruction).

And either the following (4—9) :

4. Advanced Inorganic and Physical Chemistry (with Laboratory instruction).

5. Organic Chemistry (with Laboratory instruction).

6. General Technical Chemistry and Chemical Engineering (with Laboratory instruction).

7. Engineering Drawing.

8. Practical Physics (advanced).

9. A half-course in Engineering; and a half-course of one of the following special branches of Applied Chemistry (in each case with Laboratory instruction) :

(a) Fuels and their Applications (advanced).

(b) Dyeing, Bleaching, and Printing.

(c) Oils and Fats.

(d) Sugar.

(e) Physiological Chemistry (Biochemistry).

(f) Technological Mycology.

(g) Metallurgy.

Or the following (4\*—9\*) :

4\*. A half-course in Advanced Inorganic Chemistry (with Laboratory instruction); and a half-course in Geology and Mineralogy.

5\*. Engineering.

6\*. Engineering Drawing.

7\*, 8\*. Two courses in Metallurgy, including Fuels (with Laboratory instruction).

9\*. A half-course in Electrical Engineering; and a half-course in one of the following branches of Advanced Metallurgy and Engineering:

- (a) Metallurgy and Mining of Precious Metals.
- (b) Metallurgy and Mining of Non-ferrous Metals.
- (c) Metallurgy of Iron and Steel, and their Treatment for purposes of Engineering.
- (d) Metallurgy of Alloys, and their Treatment for purposes of Engineering.

X. (1) There shall be a First Science Examination in subjects Nos. 1, 2, and 3 of the Section immediately preceding.

(2) The written examination in the subjects (1) Mathematics, (2) Natural Philosophy, and (3) Chemistry shall be of a standard not lower than that of the examination in these subjects for the Ordinary Degree of Master of Arts. In the subjects (2) and (3) there shall also be a practical examination; but under such conditions as the Senatus, with the approval of the University Court, may from time to time prescribe, a candidate who presents the records of the practical work done by himself during his attendance on the prescribed course of instruction may be exempted by the Examiners from such practical examination.

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course of instruction in the subject or subjects professed.<sup>1</sup>

XI. (1) There shall be a Final Science Examination in subjects Nos. 4 to 9, and in subjects Nos. 4\* to 9\* of Section IX. hereof.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the First Science Examination and have attended the required courses of instruction in the subject or subjects professed.<sup>1</sup>

XII. A candidate for the Degree of Bachelor of Science in Applied Chemistry shall not be deemed to have attended a course of instruction as part of the Curriculum for that Degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the course.

XIII. It shall be competent to the Examiners for the Degree of Bachelor of Science in Applied Chemistry to report that a candidate has passed with special distinction in one or more of the subjects professed by him in the Final Science Examination; and in each case the graduate shall receive a diploma wherein shall be set forth the subjects in respect of which the Degree has been granted, and the subject or subjects in which special distinction has been obtained.

XIV. It shall be competent to the University Court of the University of Glasgow to modify from time to time the provisions as to Curriculum

<sup>1</sup> In the case of subjects which include a Lecture Course and a Laboratory Course, a candidate is not admitted to the Degree Examination until he has completed attendance both at the Lecture Course and the Laboratory Course; but he is allowed to take at one examination period either or both of these parts of the examination.

hereinbefore contained, in case such modification shall be rendered desirable by the development of Applied Science in relation to Chemistry or by reason of further provision having been made within or without the University for the study of any special branch of Applied Chemistry : Provided that in no case shall the number of full courses of study required be less than the number required for the Degree of Bachelor of Science in Pure Science as specified in Ordinance No. 12 [General No. 7—Regulations for Degrees in Science].

XV. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the Degree of Bachelor of Science in Applied Chemistry on payment of the fees required.

XVI. The Degree of Bachelor of Science in Applied Chemistry shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XVII. Graduates who have obtained any Degree in the University of Glasgow, and who have either before or after graduation passed the Final Examination for the Degree of Bachelor of Science in Applied Chemistry, may offer themselves for the Degree of Doctor of Science (D.Sc.), Doctor of Philosophy (D.Phil.), or Doctor of Letters (D.Litt.), after the expiry of five years from the date of their graduation, in accordance with the provisions of University Court Ordinance No. XXVI.

XVIII. A student who, at the date at which this Ordinance comes into operation, has already commenced his course of study in the University of Glasgow, or in a College affiliated thereto, with a view to graduating as a Bachelor of Science in Pure Science or in Engineering or to obtaining the diploma of the College, and has, in conformity with the Regulations then in force for the degree or diploma, attended a course of instruction in any of the subjects set forth in Section IX. hereof, shall be entitled to reckon the course to have been attended for the purposes of the Regulations for the Degree of Bachelor of Science in Applied Chemistry ; and a student who has passed a First Science Examination in Mathematics, Natural Philosophy, or Chemistry for the Degree of Bachelor of Science in Pure Science or in Engineering shall be entitled to reckon the Examination to have been passed for the purposes of the Regulations for the Degree of Bachelor of Science in Applied Chemistry.

XIX. This Ordinance shall come into operation at the date on which it is approved by his Majesty in Council.

[Approved, 29th April, 1915.]

The following Courses have been approved for the DEGREE OF B.S.C. IN APPLIED CHEMISTRY.  
(U.C. Ordinance No. XLVII, Glasgow No. 14, Section IX.)

UNIVERSITY COURSES.		ROYAL TECHNICAL COLLEGE COURSES.	
1. <b>Mathematics.</b>		V. First Course for Engineers.	Mathematics I.
2. <b>Natural Philosophy</b> (with Laboratory instruction).		Ordinary Lecture Course; with Ordinary Laboratory Course (one term of 10 hours a week, or two terms of 6 hours a week).	Natural Philosophy I; with corresponding Course in Physical Laboratory.
3. <b>Chemistry</b> (with Laboratory instruction).		Chemistry for Engineers; with Chemical Laboratory (three terms).	Inorganic Chemistry I; with corresponding Course in Chemical Laboratory (three terms).
4. <b>Advanced Inorganic and Physical Chemistry</b> (with Laboratory instruction).		Advanced Inorganic Chemistry; Physical Chemistry; with corresponding Laboratory Courses (three terms).	Inorganic Chemistry II; Physical and Electro-Chemistry; with corresponding Laboratory Courses (three terms).
5. <b>Organic Chemistry</b> (with Laboratory instruction).		Organic Chemistry; with corresponding Laboratory Courses (three terms).	Organic Chemistry I and II; with corresponding Laboratory Courses (three terms).
6. <b>General Technical Chemistry and Chemical Engineering</b> (with Laboratory instruction).		—	General Course in Technical Chemistry; followed by corresponding Laboratory Course (one term of 30 hours a week, or two terms of 15 hours a week).

	UNIVERSITY COURSES.	ROYAL TECHNICAL COLLEGE COURSES.
7. Engineering Drawing.	Engineering Drawing and Design (two terms of 6 hours a week).	Engineering Drawing (two terms of 6 hours a week, or four terms of 3 hours a week).
8. Practical Physics (advanced).	Advanced Course in Natural Philosophy (ii) for B.Sc. (Pure Science).	Physical Laboratory, Advanced Course (one term).
9. A half-course in Engineering; and a half-course in one of the following branches: (a) Fuels and their Applications (advanced). (b) Dyeing, Bleaching, and Printing. (c) Oils and Fats. (d) Sugar.	Parts of Engineering I, and III (50 lectures).  —  —  —  —	Descriptive Engineering (50 lectures).  Lecture Course; with corresponding Laboratory Course (two terms of 6 hours a week, or one term of 12 hours a week).  Lecture Course; with corresponding Laboratory Course (two terms of 6 hours a week, or one term of 12 hours a week).  Lecture Course; with corresponding Laboratory Course (two terms of 6 hours a week, or one term of 12 hours a week).  Lecture Course; with corresponding Laboratory Course (two terms of 6 hours a week, or one term of 12 hours a week).

	UNIVERSITY COURSES.	ROYAL TECHNICAL COLLEGE COURSES.
(e) <b>Physiological Chemistry</b> (Biochemistry).	Physiological Chemistry (Grieve Lecturer's Course).	—
(f) <b>Technological Mycology.</b>	—	Lecture Course; with corresponding Laboratory Course (two terms of 6 hours a week).
(g) <b>Metallurgy.</b>	Metallurgical Chemistry A and B; with corresponding Laboratory Courses (two terms of 6 hours a week).	Metallurgy I. A; with corresponding Laboratory Course (two terms of 6 hours a week).
4*. A half-course in <b>Advanced Inorganic Chemistry</b> (with Laboratory instruction); and A half-course in <b>Geology and Mineralogy.</b>	Advanced Inorganic Chemistry; with corresponding Laboratory Course (two terms).  Geology and Mineralogy I.	Inorganic Chemistry II; with Chemical Laboratory (two terms).  Geology I.
5*. <b>Engineering.</b>	Parts of Engineering I and III (100 lectures).	Descriptive Engineering (50 lectures); Mechanics of Structures (50 lectures).
6*. <b>Engineering Drawing.</b>	Engineering Drawing and Design (two terms of 6 hours a week).	Engineering Drawing (two terms of 6 hours a week).

	UNIVERSITY COURSES.	ROYAL TECHNICAL COLLEGE COURSES.
7*. { Two courses in <b>Metallurgy</b> , including <b>Fuels</b> (with 8*. { Laboratory instruction). }	Metallurgical Chemistry A and B ; with corresponding Laboratory Courses.	Metallurgy I ; Fuels and their Appli- cations ; with corresponding Labora- tory Courses. Metallurgy II ; with corresponding Laboratory Course.
9*. A half-course in Electrical Engineering ; and a half- course in one of the following branches :	Electrical Engineering I ; with cor- responding Laboratory Course.	Electrical Engineering I ; with cor- responding Laboratory Course.
(a) <b>Metallurgy and Mining of Precious Metals.</b>	—	Metallurgy III. B ; Mining Engineer- ing II.
(b) <b>Metallurgy and Mining of Non-ferrous Metals.</b>	—	Metallurgy III. C ; Mining Engineer- ing II.
(c) <b>Metallurgy of Iron and Steel, and their Treat- ment for purposes of Engineering.</b>	—	Metallurgy III. A ; Mechanics Labora- tory II (testing of materials).
(d) <b>Metallurgy of Alloys, and their Treatment for pur- poses of Engineering.</b>	—	Metallurgy III. D ; Mechanics Labora- tory II (testing of materials).

TABLE OF EXAMINATIONS FOR DEGREE OF B.SC. IN APPLIED CHEMISTRY DURING SESSION 1918-19.

Names to be given in and fees paid to the Registrar, The University. Date. <sup>1</sup>	FEE.	DATES OF WRITTEN EXAMINATIONS AND HOURS AT WHICH THE DIFFERENT PAPERS WILL BE SET.  The Oral Examinations in Science follow the Written at dates to be arranged.  SEPTEMBER—OCTOBER, 1918.
From 19th to 30th August, 1918, both days inclusive.	£1 1s. FOR EACH SUBJECT UNTIL £6 6s. SHALL HAVE BEEN PAID.	<p>Mathematics, - - - - - Saturday, 21st Sept., 9—12 noon and 2—5 p.m.</p> <p>Organic Chemistry, - - - - - Friday, 27th Sept., 9—12 noon.</p> <p>Metallurgy and Mining of Precious Metals, Do., do., 9—12 noon.</p> <p>Inorganic Chemistry (Advanced), - - - Do., do., 2—5 p.m.</p> <p>Chemistry (First Exam.),<sup>2</sup> - - - Do., do., 2—5 p.m.</p> <p>Physical Chemistry, - - - - - Saturday, 28th Sept., 9—12 noon.</p> <p>Metallurgy and Mining of Non-ferrous Metals, Do., do., 2—5 p.m.</p> <p>Fuels and their Applications (Advanced), Do., do., 2—5 p.m.</p> <p>Metallurgy of Iron and Steel and their Treatment for Purposes of Engineering, - - - - - Monday, 30th Sept., 9—12 noon.</p> <p>Electrical Engineering I., - - - - - Do., do., 2—5 p.m.</p> <p>Physiological Chemistry, - - - - - Do., do., 2—5 p.m.</p> <p>Practical Physics,<sup>2</sup> - - - - - Tuesday, 1st Oct., 9 a.m.</p> <p>Do., do., (Advanced),<sup>2</sup> - - - - - Do., do., 9 a.m.</p> <p>Engineering Drawing, - - - - - Do., do., 9—12 noon.</p>

<sup>1</sup> When names are not given in and fees are not paid within the stated dates, a late Entry Fee of Twenty shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged. Late Entry Fees will not be accepted less than eight days before the date of Examination.

<sup>2</sup> Candidates are required to lodge their Laboratory Note-Books at the Registrar's Office a fortnight before the examination.

For Dates of the Preliminary Examinations see page 245.

TABLE OF EXAMINATIONS FOR DEGREE OF B.SC. IN APPLIED CHEMISTRY DURING SESSION 1918-19.

Names to be given in and Fees paid to the Registrar, The University. Date. <sup>1</sup>	FEE.	DATES OF WRITTEN EXAMINATIONS AND HOURS AT WHICH THE DIFFERENT PAPERS WILL BE SET. The Oral Examinations in Science follow the Written at dates to be arranged. SEPTEMBER—OCTOBER, 1918.— <i>Continued.</i>	
From 19th to 30th August, 1918, both days inclusive.	£1 1s. FOR EACH SUBJECT UNTIL £6 6s. £1 1s. SHALL HAVE BEEN PAID.	Engineering, - - - - - Metallurgy of Alloys and their Treatment for Purposes of Engineering, - - - Technological Myeology, - - - - - General Technical Chemistry and Chemical Engineering, - - - - - Dyeing, Bleaching, and Printing, - - - Natural Philosophy, - - - - - Oils and Fats, - - - - - Sugar, - - - - - Metallurgy, - - - - - Do., including Fuels, - - - - - Geology and Mineralogy, - - - - - Do., do., Practical, - - - - -	<p>Wednesday, 2nd Oct., 9—12 noon.</p> <p>Do., do., 2—5 p.m.</p> <p>Do., do., 2—5 p.m.</p> <p>Thursday, 3rd October, 9—12 noon.</p> <p>Do., do., 2—5 p.m.</p> <p>Friday, 4th Oct., 9—12 noon and 2—5 p.m.</p> <p>Saturday, 5th Oct., 9—12 noon.</p> <p>Do., do., 2—5 p.m.</p> <p>Monday, 7th Oct., 9—12 noon.</p> <p>Do., do., 9—12 noon.</p> <p>Tuesday, 8th Oct., 9—12 noon.</p> <p>Do., do., 2—5 p.m.</p>

<sup>1</sup> When names are not given in and Fees are not paid within the stated dates, a late Entry Fee of Twenty Shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged. Late Entry Fees will not be accepted less than eight days before the date of Examination.

For Dates of the Preliminary Examinations see page 245.

TABLE OF EXAMINATIONS FOR DEGREE OF B.Sc. IN APPLIED CHEMISTRY DURING SESSION 1918-19.

Names to be given in and fees paid to the Registrar, The University. Date. <sup>1</sup>	FEE.	EL 1s. FOR EACH SUBJECT UNTIL £6 6s.	
		SHALL HAVE BEEN PAID.	
From 24th February to 3rd March, 1919, both days inclusive.			
		DATES OF WRITTEN EXAMINATIONS AND HOURS AT WHICH THE DIFFERENT PAPERS WILL BE SET.	
		The Oral Examinations in Science follow the Written at dates to be arranged.	
		MARCH—APRIL, 1919.	
		Mathematics, - - - - -	Friday, 21st March, 9—12 noon and 2—5 p.m.
		Metallurgy and Mining of Precious Metals, - - - - -	Do., do., 9—12 noon.
		Inorganic Chemistry (Advanced), - - - - -	Do., do., 2—5 p.m.
		Natural Philosophy, - - - - -	Saturday, 22nd March, 9—12 noon and 2—5 p.m.
		Physical Chemistry, - - - - -	Do., do., 9—12 noon.
		Metallurgy and Mining of Non-ferrous Metals, - - - - -	Do., do., 2—5 p.m.
		Practical Physics, <sup>2</sup> - - - - -	Monday, 24th March, 9 a.m.
		Do., (Advanced), <sup>2</sup> - - - - -	Do., do., 9 a.m.
		Metallurgy of Iron and Steel and their Treatment for Purposes of Engineering, - - - - -	Do., do., 9—12 noon.
		Chemistry (First Exam.), <sup>2</sup> - - - - -	Do., do., 2—5 p.m.
		Electrical Engineering I., - - - - -	Do., do., 2—5 p.m.
		Engineering Drawing, - - - - -	Tuesday, 25th March, 9—12 noon.
		Organic Chemistry, - - - - -	Do., do., 2—5 p.m.
		Engineering, - - - - -	Wednesday, 26th March, 9—12 noon.

<sup>1</sup> When names are not given in and Fees are not paid within the stated dates, a late Entry Fee of Twenty Shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged. Late Entry Fees will not be accepted less than eight days before the date of Examination.

<sup>2</sup> Candidates are required to lodge their Laboratory Note-Books at the Registrar's Office a fortnight before the examination. For Dates of the Preliminary Examinations see page 245.

TABLE OF EXAMINATIONS FOR DEGREE OF B.S.C. IN APPLIED CHEMISTRY DURING SESSION 1918-19.

Names to be given in and Fees paid to the Registrar, The University, Date. <sup>1</sup>	FEE.	DATES OF WRITTEN EXAMINATIONS AND HOURS AT WHICH THE DIFFERENT PAPERS WILL BE SET. The Oral Examinations in Science follow the Written at dates to be arranged. MARCH—APRIL, 1919.— <i>Continued.</i>	
From 24th February to 3rd March, 1919, both days inclusive.	£1 1s. FOR EACH SUBJECT UNTIL £6 6s. SHALL HAVE BEEN PAID.	Metallurgy of Alloys and their Treatment for Purposes of Engineering, - General Technical Chemistry and Chemical Engineering, - Metallurgy, - Do., including Fuels, - Dyeing, Bleaching, and Printing, - Oils and Fats, - Geology and Mineralogy, - Do., do., Practical, - Sugar, - Physiological Chemistry, - Fuels and their Applications (Advanced), - Technological Mycology, -	<p>Wednesday, 26th March, 2-5 p.m.</p> <p>Thursday, 27th March, 9-12 noon. Do., do., 2-5 p.m. Do., do., 2-5 p.m.</p> <p>Friday, 28th March, 9-12 noon. Do., do., 2-5 p.m.</p> <p>Saturday, 29th March, 9-12 noon. Do., do., 2-5 p.m.</p> <p>Monday, 31st March, 9-12 noon. Do., do., 2-5 p.m.</p> <p>Tuesday, 1st April, 9-12 noon. Do., do., 2-5 p.m.</p>

<sup>1</sup> When names are not given in and Fees are not paid within the stated dates, a late Entry Fee of Twenty Shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged. Late Entry Fees will not be accepted less than eight days before the date of Examination.

For Dates of the Preliminary Examinations see page 245.

## Degree in Science in Agriculture.

The regulations for the Degree of Bachelor of Science in Agriculture are contained in Ordinance No. 134 of the Universities Commission (1889), and are as follows:—

I. A degree of Bachelor of Science in Agriculture may be conferred by the University of Glasgow.

II. Every candidate for the degree of Bachelor of Science in Agriculture must pass the Preliminary Examination<sup>1</sup> prescribed by the Arts Ordinance (Regulations for Degrees in Arts); and the conditions with respect thereto imposed by the said Ordinance (see pp. 238-248) shall be applicable in all respects to this Ordinance except as follows:— (1) French or German may be substituted for Latin or Greek; (2) Mathematics shall be passed on the higher standard;<sup>2</sup> (3) a degree in Arts (not being a degree *honoris causâ tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus Academicus, shall exempt from the Preliminary Examination; (4) the Preliminary Examination must be passed before the candidate presents himself for any part of the First Science Examination, but not necessarily before the candidate enters on his curriculum.

III. (1) Candidates must in the course of not less than three Academical years, within the meaning of the Ordinance hereinbefore first mentioned, attend at least twelve courses of instruction, in the subjects specified in Section VIII. of this Ordinance.

(2) It shall be the duty of the Senatus to determine from time to time which of the said courses shall be full courses and which shall be half courses respectively, and also to determine the number of meetings of which such full courses and half courses respectively shall consist, and to report its determination to the University Court for its approval.

Under this subsection the Senate, with the approval of the University Court, has determined that of the subjects specified in Section VIII. of this Ordinance, Nos. 1, 2, 3, 4, 5, 6 and 10 shall be taught in full courses, and Nos. 7, 8, 9, 11 (a), 11 (b), 11 (c) and 12 in half courses, and that the number of meetings shall be those inserted in square brackets in Section VIII. opposite the several subjects.

IV. (1) Five full courses or their equivalent (counting two half courses as one full course) must be taken in the University of Glasgow. The course in Agriculture and Rural Economy must also be taken in the University of Glasgow, if instruction in the said subjects be provided in the University, or in the West of Scotland Agricultural

<sup>1</sup> As to the fee payable for examination in a special subject, see footnote on p. 287.

<sup>2</sup> Candidates for the Degree of B.Sc. in Agriculture may offer themselves for examination in Mathematics on the intermediate instead of on the higher standard; provided that in addition to the ancient or modern language already taken they also offer themselves for examination in a modern language as a fifth subject, such further examination to be on the standard prescribed by the Joint Board for the Medical Preliminary.

College<sup>1</sup> : Provided always that that course in the said College shall be accepted as equivalent to a course in the University, subject to the following conditions :—

(a) The Senatus Academicus shall be represented on the governing body of the Agricultural College.<sup>1</sup>

(b) All future appointments to the Chair of Agriculture in the Agricultural College<sup>1</sup> shall be vested in a Joint Committee, consisting of three members of the University Court and of three members of the governing body of the Agricultural College.<sup>1</sup>

(2) The remainder of the said courses may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science in Agriculture: Provided that the fees for attendance at an approved Institution in Glasgow or under a recognised teacher there shall not be less than the fees exigible for the corresponding courses in the University of Glasgow.

(3) Residence and practical work at a farm shall be required of each candidate to such an extent and under such regulations as the Senatus, with the approval of the University Court, may from time to time appoint.

Under this subsection the following regulations have been made by the Senate, with the approval of the University Court.

1. Residence and practical work at a farm for twelve months shall be required, and the candidate must not be under sixteen years of age when he commences the residence.

2. The residence must be for twelve consecutive months, except in special cases in which the Senate may grant recognition of residence during two shorter periods amounting together to at least twelve months.

3. The candidate must produce evidence, satisfactory to the Senate, that he has fulfilled these regulations.

V. All students availing themselves of the permission to attend the lectures of the teachers in the various departments of Agriculture in the West of Scotland Agricultural College, or of teachers in other approved institutions in Glasgow, or of other recognised teachers in Glasgow, must, at the commencement of each year of such attendance, enrol their names in a book to be kept in the University for that purpose, paying a fee of the same amount as the matriculation fee paid by the students of the University, and having in respect of such payment a right to the use of the Library of the University.

<sup>1</sup> An ordinance was framed by the University Court on 6th August, 1900, and approved by His Majesty in Council on 24th July, 1901, which substituted the West of Scotland Agricultural College for the Glasgow and West of Scotland Technical College (now the Royal Technical College, Glasgow).

VI. (1) It shall be the duty of the Professors and Lecturers annually, at the end of each winter session, to submit to the Senatus a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Senatus shall transmit such scheme, with such observations as it may think fit to make thereon, to the University Court for its approval.

(2) It shall be the duty of the Professors and Lecturers annually, at the end of each winter session, to submit to the Faculty of Science for its consideration a syllabus of the subjects and books proposed for the work of their classes during the next Academical year. The Faculty of Science shall transmit such syllabus, with such observations as it may think fit to make thereon, to the Senatus for its approval.

VII. The provisions of the immediately preceding section shall not apply to approved institutions or recognised teachers outside Glasgow; but the University Court shall not grant or continue recognition to any institutions or teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the University of Glasgow, where such exist.

VIII. The subjects of study shall be as follows:—

1.  $\left\{ \begin{array}{l} \text{Mathematics [100 meetings].} \\ \text{or Biology, i.e., } \left\{ \begin{array}{l} \text{Zoology [100 meetings, viz., 50 lectures and 50} \\ \text{and practical].}^1 \\ \text{Botany, [100 meetings, viz., 50 lectures and 50} \\ \text{practical].}^2 \end{array} \right. \end{array} \right.$
2. Natural Philosophy [100 meetings].
3. Chemistry [100 meetings and three months in Chemical Laboratory].
4. Agriculture and Rural Economy [100 meetings].
5. Agricultural Chemistry [100 meetings, viz., 50 lectures and 50 practical].
6. Geology [80 meetings, including 50 lectures and 28 practical demonstrations].
7. Veterinary Hygiene [50 meetings].
8. Agricultural Botany [50 meetings].
9. Agricultural Entomology [25 meetings].
10. Economic Science as applied to Agriculture [100 meetings].<sup>3</sup>

<sup>1</sup> The scope of the examination in Zoology is the same as that for Pure Science (First Exam.) and for Arts. See p. 270.

<sup>2</sup> See p. 141.

<sup>3</sup> The Royal Technical College, Glasgow, contemplates the institution of a special class for the teaching of this subject in 50 meetings. Until this special class shall be instituted candidates are required to attend the ordinary class of Political Economy [100 meetings]. After both classes are available students will have the option of taking either. In the examination prescribed under Section X. every candidate shall be required to work a paper of questions on Economic Science as applied to Agriculture.

11. One of the following:—

- (a) Forestry [50 meetings].
- (b) Experimental Physics [50 meetings].
- (c) Engineering [50 meetings].

12. Engineering Field Work [50 meetings].

IX. (1) There shall be a First Science Examination in the three following subjects—viz., (1) Mathematics or Biology (*i.e.*, Zoology and Botany); (2) Natural Philosophy; (3) Chemistry.

(2) The examination in all these subjects shall be the same as the examination in these subjects for the degree of Bachelor of Science, under the provisions of Ordinance No. 12 [General, No. 7—Regulations for Degrees in Science].<sup>1</sup>

(3) Candidates may present themselves in any one or more of the subjects of the First Science Examination at any examination held after they have attended a full course in the subject or subjects professed.

X. (1) There shall be a Final Science Examination<sup>2</sup> in the remaining subjects (4 to 12 inclusive) specified in Section VIII. hereof.

(2) Candidates may present themselves in any one or more of these subjects at any examination held after they have passed the whole of the subjects comprised in the First Science Examination, and have attended the required courses in the subjects professed.

XI. A candidate for the degree of Bachelor of Science in Agriculture shall not be deemed to have attended a class as part of the Curriculum for that degree who does not present a certificate bearing, not only that he has given regular attendance, but also that he has duly performed the work of the class.

XII. The Examiners for the degree of Bachelor of Science in Agriculture shall be the Professors of the subjects in the Curriculum in the University of Glasgow, the Professor of Agriculture in the West of Scotland Agricultural College, and such additional Examiners as the University Court shall see fit to appoint.

#### GENERAL.

XIII. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the degree of Bachelor of Science in Agriculture, on payment of the fees required.

XIV. The degree of Bachelor of Science in Agriculture shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum*.

XV. This ordinance came into force from and after the date on which it was approved by Her Majesty in Council, viz., 13th August, 1895.

<sup>1</sup> See Section VIII., Pure Science, p. 288.

<sup>2</sup> The examination in Agricultural Botany, Agricultural Entomology, and Experimental Physics, may be practical.

DATES OF WRITTEN EXAMINATIONS AND HOURS AT WHICH THE DIFFERENT PAPERS WILL BE SET.			
The Oral Examinations in Science follow the Written at dates to be arranged.			
Names to be given in and Fees paid to the Registrar, The University. Date, <sup>1</sup>	Mathematics, - - - - -	Sat., 21st September, 9-12 noon and 2-5 p.m.	
	Botany, - - - - -	Friday, 27th September, 9-12 noon.	
	Chemistry, - - - - -	Do., 2-5 p.m.	
	Zoology, - - - - -	Sat., 28th September, 9-12 noon.	
	Physical Laboratory, - - - - -	Tues., 1st October, 9 a.m.	
	Economic Science, - - - - -	Do., 2-5 p.m.	
	Engineering Field Work, - - - - -	Wed., 2-5 p.m.	
	Natural Philosophy, - - - - -	Friday, 4th October, 9-12 noon, and 2-5 p.m.	
	Agriculture, - - - - -	Do., 9-12 noon.	
	Agricultural Entomology, - - - - -	Do., 2-5 p.m.	
	Zoology (Practical), - - - - -	Sat., 5th October, 9 a.m.	
	Engineering, - - - - -	Do., 9-11 a.m.	
	Veterinary Hygiene, - - - - -	Mon., 7th October, 9-12 noon.	
	Geology, Paper I., - - - - -	Tues., 8th October, 9-12 noon.	
	" Practical, - - - - -	Do., 2-5 p.m.	
From 19th to 30th August, 1918, both days inclusive.	" Paper II., - - - - -	Wed., 9th October, 9-12 noon.	
	Zoology, - - - - -	Friday, 21st March, 9-12 noon.	
	Botany, - - - - -	Sat., 22nd March, 9-12 noon.	
	Physical Laboratory, - - - - -	Mon., 24th March, 9 a.m.	
	Chemistry, - - - - -	Do., 2-5 p.m.	
	Engineering Field Work, - - - - -	Wed., 26th March, 2-5 p.m.	
	Agriculture, - - - - -	Thurs., 27th March, 9-12 noon.	
	Agricultural Entomology, - - - - -	Do., 2-5 p.m.	
	Engineering, - - - - -	Friday, 28th March, 9-11 a.m.	
	Veterinary Hygiene, - - - - -	Do., 2-5 p.m.	
	Zoology (Practical), - - - - -	Sat., 29th March, 9 a.m.	
	Geology, Paper I., - - - - -	Do., 9-12 noon.	
	" Practical, - - - - -	Do., 2-5 p.m.	
	Geology, Paper II., - - - - -	Mon., 31st March, 9-12 noon.	
	From 24th Feb. to 3rd March, 1919, both days inclusive.	Mathematics, - - - - -	Thurs., 29th May, 9-12 noon and 2-5 p.m.
Natural Philosophy, - - - - -		Thurs., 5th June, 9-12 noon and 2-5 p.m.	
Economic Science, - - - - -		Mon., 9th June, 2-5 p.m.	
From 5th to 9th May, 1919, both days inclusive.			

<sup>1</sup> When Names are not given in and Fees are not paid within the stated dates, a late Entry Fee of Twenty Shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged. Late Entry Fees will not be accepted less than eight days before the date of Examination.

For Dates in regard to Science Preliminary Examination see page 245.

### Degrees in Science in Public Health.

The following are the provisions of University Court Ordinance No. vi. (Glasgow, No. 2):—

I. Two degrees in Science in Public Health shall be conferred by the University of Glasgow, viz.: Bachelor of Science in Public Health (B.Sc. Pub. Health) and Doctor of Science in Public Health (D.Sc. Pub. Health).

#### B.SC. IN PUBLIC HEALTH.

II. Candidates for the degree of Bachelor of Science in Public Health must be graduates in Medicine of a University of the United Kingdom, or of some other University recognised for the purpose by the University Court of the University of Glasgow.

III. Candidates must be matriculated for the year in which they appear for examination or graduation.

IV. Candidates shall be admitted to the Degree of Bachelor of Science in Public Health only after they have fulfilled the following conditions, viz.: they must produce evidence

(1) That, after their graduation in Medicine, they have received practical instruction, including instruction in Chemistry, Bacteriology, and the Pathology of the Diseases of Animals transmissible to man, for at least twenty hours per week during a period of not less than eight months, of which at least five consecutive months must be in the Public Health Laboratory of the University of Glasgow, and the remainder in the foresaid Laboratory, or in a Public Health Laboratory recognised for the purpose by the University Court.

(2) That they have attended either before or after graduation in Medicine, such courses on (a) Physics and (b) Geology, either in the University of Glasgow or elsewhere, as would qualify for graduation in Science or Arts in the said University; or have attended in said University or any other Scottish University in addition to the course in Physics qualifying for graduation in Medicine, such further course in Physics as the Senatus Academicus, with the approval of the University Court, shall deem necessary,<sup>1</sup> and such a course in Geology extending over not less than three months, as the Senatus with the like approval shall deem sufficient and appropriate.

(3) That after their graduation in Medicine they have attended two separate courses in Public Health, one course dealing with Medicine and consisting of seventy-five meetings of the class, the other with Engineering and consisting of twenty-five meetings of the class, each in its relation to Public Health, in such manner as the Senatus Academicus, with the approval of the University Court, shall determine.

(4) That after their graduation in Medicine they have for six months, three of which must be continuous, been engaged in acquiring a

<sup>1</sup> The course approved is a special course in Practical Work in the Physical Laboratory of 6 hours per week during the first term of the Winter Session, and a tutorial course of lectures during the second winter term.

practical knowledge of the duties, routine and special, of Public Health Administration under the personal supervision of :<sup>1</sup>

- (a) In England and Wales, the Medical Officer of Health of a County or of a single or combined Sanitary District having a population of not less than 50,000, or a Medical Officer of Health devoting his whole time to Public Health work ; or
- (b) In Scotland, a Medical Officer of Health of a County or Counties, or of one or more Sanitary Districts having a population of not less than 30,000 ; or
- (c) In Ireland, a Medical Superintendent Officer of Health of a District or Districts having a population of not less than 30,000 ; or
- (d)<sup>2</sup> In the British Dominions outside the United Kingdom, a Medical Officer of Health of a Sanitary District having a population of not less than 30,000, who himself holds a registrable Diploma in Public Health ; or
- (e) A Medical Officer of Health who is also a Teacher in the Department of Public Health of a recognised Medical School ; or
- (f)<sup>2</sup> A Sanitary Staff Officer of the Royal Army Medical Corps having charge of an Army Corps, District, Command, or Division, recognised for this purpose by the General Medical Council ;<sup>3</sup> or
- (g) An Assistant Medical Officer of Health of a County, or of a single Sanitary District having a population of not less than 50,000, provided the Medical Officer of Health of the County or District in question permits the Assistant Officer to give the necessary instruction and issue certificates :

Or that the candidate has himself held for a period of not less than three years an appointment as Medical Officer of Health of a Sanitary District within the British Dominions and having a population of not less than 15,000.

Half of the above period must be devoted solely to the study of sanitary work as aforesaid ; the other half partly to the same study.

(5) That after their graduation in Medicine they have attended at least twice weekly during three months the practice of an Hospital for Infectious Diseases in an Hospital at which opportunities are afforded

<sup>1</sup> For the purposes of Regulation IV. (4) the certificate must include testimony that the candidate has attended under the supervision of the person testifying on not less than 60 working days.

<sup>2</sup> Paragraphs (d) and (f) were added on 7th July, 1910, by the University Court in virtue of the power reserved to them by Section VIII. of this Ordinance.

<sup>3</sup> The following Districts and Commands have been recognised under this rule :—Aldershot, Salisbury Plain, Southern and South-Eastern, Western, Dublin and Belfast, Cork, Chatham and Woolwich, Home, Eastern, North-Eastern and North-Western, Scottish, Gibraltar Command, Malta Command ; and the following Indian Divisions, viz. 1st (Peshawar), 2nd (Rawalpindi), 3rd (Lahore), 4th (Quetta), 5th (Mhow), 6th (Poona), 7th (Meerut), 8th (Lucknow), 9th (Secunderabad), and Burmah.

for the study of Methods of Administration, recognised for the purpose by the University Court;<sup>1</sup> and

(6) That they have had three months' instruction in Mensuration and Drawing under a teacher recognised for the purpose by the University Court.

V.<sup>2</sup> Each candidate shall be examined both in writing and orally, and also practically where the nature of the subject admits, in the following divisions, viz.: *First*, in (a) Public Health Laboratory work, (b) Physics, and (c) Geology, if an examination in Physics or Geology, as the case may be, qualifying for graduation either in Science or Arts has not previously been passed by the Candidate; *Second*, in (a) Sanitation, including reports on dwellings, workshops, hospitals, and sanitary schemes generally, (b) Sanitary Law, (c) Vital Statistics, and (d) Medicine in its bearings on Public Health, and the examinations in these subjects shall be taken at one time.

VI. Candidates who have passed their examinations in the subjects comprised in the first division shall not be admitted to examination in the second division sooner than eighteen months after having taken their degree in Medicine, nor sooner than six months after having passed the first examination.

VII. The Board of Studies for the Faculty of Science along with the Lecturer or Professor of Public Health shall from time to time, with the approval of the Senatus and the University Court, determine and announce the character of the instruction to be given in the Laboratory, and shall fix the standard of the examinations.

VIII. It shall also be competent for the University Court, after consultation with the Senatus, to modify from time to time the provisions as to the work and instruction hereinbefore specified as necessary for graduating in Science in Public Health, in case such modification shall be rendered desirable by the development of the Science of Public Health, or by increase of the facilities provided in the said University or elsewhere for the study of any branch of the said Science.

IX. The Examiners for graduation in Science for the Degree of B.Sc. in Public Health in the University of Glasgow shall be the Professors in that University whose subjects qualify for graduation in Science, together with such Lecturers in the University, and such additional Examiners to be appointed by the University Court as the University Court shall deem necessary, provided that the Court shall make such

<sup>1</sup> Methods of administration shall include the methods of dealing with patients at their admission and discharge as well as in the wards, and the medical superintendence of the Hospital generally.

In the case of a Medical Officer of the Royal Army Medical Corps, a certificate from a Principal Medical Officer under whom a candidate has served stating that he has during a period of at least three months been diligently engaged in acquiring a practical knowledge of Hospital Administration in relation to Infectious Diseases will be accepted as evidence under Regulation (5).

<sup>2</sup> The Senate, with the approval of the University Court, has made, under Ordinance No 13, the following regulation:—A period of not less than twelve months shall have elapsed between the attainment of a registrable qualification in Medicine, Surgery, and Midwifery, and the admission of the candidate to any examination, or any part thereof, for the Degree of B.Sc. in Public Health.

provision as will ensure that every candidate shall be examined in each subject by at least two Examiners, of whom one shall not be a Professor or Lecturer in the University. Provided also that the Examination under Section V. in Sanitation, including reports of dwellings, work-shops, and hospitals, and sanitary schemes generally, shall be conducted by two Examiners, one of whom shall be a Medical Officer of Health, and the other shall be the Professor of, or Lecturer on, Public Health in the University.

#### D.SC. IN PUBLIC HEALTH.

X. Graduates who have held the degree of Bachelor of Science in Public Health from the University of Glasgow for a term of five years, may offer themselves for the Degree of Doctor of Science in Public Health in the said University.

XI. Each candidate for the degree of Doctor of Science in Public Health shall present a thesis or a published memoir or work to be approved by the Senatus, on the recommendation of the Faculty of Science, and shall also be required to pass an examination in Public Health, and in such of its special departments as the Senatus, with the approval of the University Court, by regulations framed from time to time, shall determine.

The thesis, or published memoir or work, shall be a record of original research undertaken by the candidate, and shall be accompanied by a declaration, signed by him, that the work has been done, and the thesis or memoir composed, by himself.<sup>1</sup>

With reference to the examination named in the first paragraph of this section the Senatus, with the approval of the University Court, have determined as follows: Each candidate shall be examined, as may be the choice of the candidate, in one of the following group of subjects, viz.: (a) Medicine in its bearings on Public Health,<sup>2</sup> (b) Bacteriology relating to Public Health, (c) Schemes of Practical Sanitation, (d) Public Health problems and schemes in Tropical Countries, (e) Geology relating to Public Health, with special reference to Sources of Water-supply, Characters of Waters, and Pollution of Water-supplies, etc.

XII. The Senatus Academicus shall appoint such Professors or Lecturers as it may think suitable to conduct the examination of candidates who may offer themselves under the provisions of this Ordinance for the Degree of Doctor of Science, and the University Court shall, after consultation with the Senatus Academicus, appoint such additional Examiners as they deem necessary to act along with them. Such additional Examiners shall be persons of recognised eminence in the subject of the thesis, or memoir, or work which is to be submitted for approval, and may be Professors or Lecturers in any Scottish University other than the University of Glasgow.

XIII. The thesis, memoir, or work submitted by a candidate for the Degree of Doctor of Science shall in each case be examined by the

<sup>1</sup> See second and third notes on p. 305.

<sup>2</sup> Including Infectious and Contagious Diseases of an epidemic, endemic, or pandemic character, Dietetic Diseases, Occupational Diseases, and Diseases of Animals communicable to Man.

TABLE OF EXAMINATIONS FOR DEGREE OF B.Sc. IN PUBLIC HEALTH DURING SESSION 1918-19.

Names to be given in and Fees paid to the Registrar, The University. <sup>1</sup> Date. <sup>2</sup>	FEE.	Subjects of Examination.	Dates of Written Examinations and Hours at which the different Papers will be set. The Oral Examinations in Science follow the Written at dates to be arranged.	
			SEPTEMBER, 1918.	MARCH, 1919.
From 10th to 30th August, 1918, both days inclusive, or From 24th Feb. to 3rd March, 1919, both days inclusive.	£1 IS. FOR EACH SUBJECT UNTIL £6 6s. £1 IS. FOR EACH SUBJECT PAID.	Vital Statistics, - -	Sat., 28th September, 9-11 a.m.	Tues., 25th March, 9-11 a.m.
		Sanitary Law, - -	Do., do., 12-2 p.m.	Do., do., 12-2 p.m.
		Public Health Laboratory Work (Written Paper),	Do., do., 12-2 p.m.	Wed., 26th March, 9-11 p.m.
		Medicine in relation to Public Health, - -	Mon., 30th do., 9-11 a.m.	Do., do., 9-11 a.m.
		Public Health Laboratory (Analytical Chemistry),	Do., do., 9-4 p.m.	Tues., 25th March, 9-4 p.m.
		Practical Sanitation, -	Do., do., 12-2 p.m.	Wed., 26th March, 12-2 p.m.
		Physics, - - -	Tues., 1st October, 9 a.m.	Mon., 24th March, 9 a.m.
		Public Health (Inspection & Report on Property),	Do., do., 9 a.m.	Wed., 26th March, 2 p.m.
		Public Health Laboratory (Bacteriology), -	Do., do., 2-5 p.m.	Do. do., 2-5 p.m.
		Geology, Paper I., - -	Tues., 8th October, 9-12 noon.	Sat., 29th March, 9-12 noon.
		Do., Paper II., - -	Wed., 9th October, 9-12 noon.	Mon., 31st March, 9-12 noon.

<sup>1</sup> For Women students, Miss Melville, Queen Margaret College.<sup>2</sup> When Names are not given in and Fees are not paid within the stated dates, a late Entry Fee of Twenty Shillings must be paid before the candidate can be admitted to examination. A candidate is not held to be entered for the examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged. Late Entry Fees will not be accepted less than eight days before the date of Examination.

additional Examiner to be appointed by the University Court, as well as by the Examiners to be appointed by the Senatus under the provisions of Section XII. of this Ordinance.

XIV. The result of the examination of the thesis, memoir, or work submitted by a candidate, as well as the result of the Examination prescribed under Section XI. of this Ordinance, shall be reported to the Faculty of Science.

#### GENERAL.

XV. Candidates who produce certificates bearing that, either before or after, or partly before and partly after, the date at which this Ordinance shall come into force, they have satisfied the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the degrees of Bachelor of Science in Public Health and Doctor of Science in Public Health, as the case may be, on payment of the fees required.

XVI. The degrees of Bachelor and Doctor of Science in Public Health shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum*.

XVII. This Ordinance shall come into force from and after the date on which it is approved by His Majesty in Council.

Approved, 20th May, 1903.

#### DEGREE IN SCIENCE IN PHARMACY.

The following are the provisions of the University Court Ordinance No. XVI. (Glasgow No. 4), issued on 3rd May, 1906, and approved by His Majesty in Council on 11th February, 1907:—

I. A Degree of Bachelor of Science in Pharmacy (B.Sc. Pharm.) may be conferred by the University of Glasgow.

II. Every candidate for the Degree of Bachelor of Science in Pharmacy must pass the Preliminary Examination prescribed by the Arts Ordinance (Regulations for Degrees in Arts), and the conditions with respect thereto imposed by the said Ordinance shall be applicable in all respects to Candidates for the Degree of Bachelor of Science in Pharmacy, except as follows:—(1) French or German may be substituted for Latin or Greek; (2) Mathematics shall be passed on the higher standard; (3) a degree in Arts (not being a degree *honoris causâ tantum*) in any of the Universities of the United Kingdom, or in any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus Academicus, shall exempt from the Preliminary Examination.

III. Candidates for the Degree of Bachelor of Science in Pharmacy must, in the course of not less than three Academical years, within the meaning of the Ordinance last above mentioned, attend at least seven courses of instruction in subjects prescribed for examination under Sections X. and XI. of this Ordinance, and must have been practically engaged in the operations of Pharmacy, and have fulfilled the other conditions thereanent, as prescribed in Section XI. of this Ordinance.

IV. Three of the courses mentioned in Section III. must be in subjects prescribed for the first Science Examination under Section X. of this Ordinance, and four must be in subjects prescribed for the final Science Examination under Section XI. of this Ordinance.

V. (1) Four of the seven courses must be taken in the University of Glasgow.

(2) Three may be taken in other Universities or Institutions approved by the University Court, or under teachers recognised by the University Court for purposes of graduation in Science; provided that the fees for attendance at an approved Institution or under a recognised teacher in Glasgow shall not be less than the fees exigible for the corresponding courses in the University.

VI. All Candidates, not matriculated students of the University, availing themselves of the permission to attend lectures at approved Institutions, or by recognised teachers in Glasgow, shall at the commencement of each year of such attendance enrol their names in a book to be kept for that purpose in the University, paying a fee of the same amount as the Matriculation Fee paid by students of the University, and having, in respect of such payment, a right to the use of the Library of the University.

VII. (1) After receiving through the Faculty of Science the opinion of the Board of Studies, the Senatus shall determine from time to time the number of meetings of which a full course in any subject shall consist, and shall report its determination to the University Court for its approval.

(2) After receiving through the Faculty of Science the opinion of the Board of Studies, the Senatus, with the approval of the University Court, may sanction half courses of not less than half the number of meetings that constitute a full course in the subject; and two half courses shall be held to be equivalent to a full course in such cases as the Senatus, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose.

(3) It shall be the duty of each Professor and Lecturer annually at the end of each Winter Session to submit to the Board of Studies a scheme specifying what proportion of the courses shall be devoted to lectures, practical demonstrations, examinations, and tutorial work respectively. The Board of Studies shall transmit the schemes to the Faculty of Science, who shall submit them to the Senatus with such observations as they may think fit to make thereon. The Senatus shall transmit such schemes, with such observations as it may think fit to make thereon, to the University Court for its approval.

(4) It shall be the duty of each Professor and Lecturer annually at the end of each Winter Session to submit to the Board of Studies for its approval a syllabus of the subjects and books proposed for the work of his class or classes during the next Academical year. Upon such approval being given the syllabus shall be transmitted to the Faculty of Science for its consideration. The syllabus, with such observations

as the Faculty of Science may think fit to make thereon, shall then be transmitted to the Senatus for its sanction.

VIII. The provisions of the preceding section shall not apply to approved Institutions or recognised Teachers outside Glasgow; but the University Court shall not grant or continue recognition to any Institutions or Teachers unless they shall be satisfied that their courses of instruction are equivalent to the courses sanctioned in the Universities of Scotland.

IX. Candidates must be matriculated students of the University of Glasgow when they appear for examination or graduation.

X. (1) There shall be a First Science Examination in the three following subjects, viz.:—(1) Mathematics or Biology (*i.e.*, Zoology and Botany); (2) Natural Philosophy; (3) Chemistry.

(2) The Examination in all these subjects shall be the same as the Examination in these subjects for the first Bachelor of Science Examination in Pure Science with the addition of practical work in the subjects which admit of it.

(3) Candidates may present themselves in any one or more of these subjects at any Examination held after they have attended the required course in the subject or subjects professed.

XI. (1) There shall be a Final Science Examination on a higher standard on the following subjects:—

1. Chemistry.
2. Botany.
3. Materia Medica.
4. Pharmacy.

(2) Candidates presenting themselves for this Examination must (a) have passed in all the subjects comprised in their First Science Examination; (b) have attended a full course of higher instruction, including practical or laboratory work, in each of the four subjects; and (c) already be Chemists and Druggists registered under the Pharmacy Acts, 1852 and 1868, or be Graduates in Medicine of a University of the United Kingdom, or of some other University recognised for the purpose by the University Court of the University of Glasgow.

XII. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint, and in every case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

XIII. A candidate for the Degree of Bachelor of Science in Pharmacy shall not be deemed (1) to have attended a class as part of the curriculum for that Degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class; (2) to have fulfilled the conditions respecting the practice of Pharmacy who does not present a certificate or diploma showing that he possesses either of the qualifications required under Section XI. (2) c of this Ordinance.

XIV. It shall be competent to the Examiners for the Degree of Bachelor of Science in Pharmacy to report that a candidate has passed with special distinction in one or more of the subjects professed by him; and in such a case a diploma shall be given setting forth the subjects in respect of which the Degree has been granted, and the subject or subjects in which special distinction has been obtained.

XV. The Examiners for the Degree of Bachelor of Science in Pharmacy in the University of Glasgow shall be the Professors in that University whose subjects qualify for the Degree, together with such Lecturers in the University and such additional Examiners to be appointed by the University Court as the University Court shall deem necessary, provided that the Court shall make such provisions as will ensure that every candidate shall be examined in each subject by at least two examiners, of whom one shall not be a Professor or Lecturer in the University.

XVI. Candidates who produce certificates that they have satisfied all the conditions prescribed by this Ordinance, and who have passed the necessary examinations, shall be entitled to receive the Degree of Bachelor of Science in Pharmacy on payment of the fees required.

XVII. The Degree of Bachelor of Science in Pharmacy shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum*.

XVIII. For the purposes of this Ordinance the Professor of Materia Medica shall be deemed to be a Member of the Faculty of Science.

XIX. This Ordinance shall come into force at the beginning of the Winter or Summer Session next after the date of its approval by His Majesty in Council.

### 3.—UNIVERSITY COURT ORDINANCE No. LIII. (GLASGOW No. 16).— REGULATIONS FOR DEGREES IN EDUCATION.

At Glasgow, the fourteenth day of December, Nineteen hundred and sixteen years.

Whereas by Section 21 of the Universities (Scotland) Act, 1889, it is enacted that, after the expiration of the powers of the Commissioners under the said Act, the University Court of each University shall have power to make such Ordinances as they think fit, with the approval of His Majesty in Council, *inter alia*, altering and revoking any of the Ordinances affecting such University which have been or may be framed and passed under the Universities (Scotland) Act, 1858, or the said recited Act itself, and making new Ordinances;

And whereas by Section 14 of the said Universities (Scotland) Act, 1889, the said Commissioners had power to make Ordinances to regulate, *inter alia*, the granting of degrees and the institution of new degrees;

And whereas the powers of the said Commissioners have expired;

And whereas the University Court of the University of Glasgow have resolved that it is expedient to promote the professional study of the Theory, Practice, and History of Education, by instituting in the Faculty of Arts the new Degree of Bachelor of Education, and by enabling graduates of the University of Glasgow who obtain the Degree to proceed to Higher Degrees in Arts and Science, and to frame Regulations for the same;

Therefore the University Court of the University of Glasgow hereby statute and ordain as follows :

I. A Degree of Bachelor of Education (Ed.B.) in the Faculty of Arts may be conferred by the University of Glasgow.

II. Every Candidate for the Degree of Bachelor of Education must, after a course of study extending over not less than three academical years, have obtained a degree (hereinafter called the "previous degree") either in a Scottish University, or in some other University approved for this purpose by the University Court, on the recommendation of the Senatus. A University Certificate which is recognised by the University Court as equivalent to a degree may be accepted in place of the previous degree.

III. The course of study for the Degree of Bachelor of Education shall extend over not less than two sessions, within the meaning of Section I. of University Court Ordinance No. XXIII. (Glasgow No. 6); and such sessions shall be subsequent to the completion of the third academical year of study required for the previous degree.

IV. (1) The Curriculum in Education shall consist of two stages, namely, the First (or Diploma) Stage, and the Second (or Honours) Stage; and shall include the following qualifying courses of instruction :

*First (or Diploma) Stage.*

1. Principles of Psychology, with Laboratory practice;
2. History and Theory of Education;
3. Educational Methods;
4. Physiology and Hygiene.

*Second (or Honours) Stage.*

5. Educational Psychology, with Laboratory practice (advanced course);
6. History and Theory of Education (advanced course);
7. Educational Institutions and Administration (advanced course).

The courses of instruction of the First Stage shall correspond in character to the higher Ordinary courses qualifying for the Ordinary Degree of Master of Arts, and attendance thereon shall not be completed before the end of the first session of the course of study as prescribed in Section III. hereof.

The courses of instruction of the Second Stage shall correspond in character to the Honours courses qualifying for the Degree of Master of Arts with Honours, and attendance thereon shall not be completed before the end of the second session of the course of study as prescribed in Section III. hereof.

(2) It shall be competent to the University Court, on the recommendation of or after consultation with the Senatus, to make from time to time additions to or modifications in the provisions as to Curriculum contained in this Ordinance, in case such addition or modification shall be rendered desirable by the development of the science and practice of Education, or by reason of further provision having been made within or without the University for the study of special branches of Education; provided always that the number of qualifying courses of instruction required be not less than seven.

(3) The University Court shall communicate to the General Council all such additions or modifications as it proposes to make under the foregoing subsection (2); and any representation made thereon by the General Council within two months from the date of such communication shall be taken into consideration by the University Court before such additions or modifications are made.

V. The Senatus, with the approval of the University Court, shall determine the number of meetings of the class which shall constitute a qualifying course of instruction in each subject of the Curriculum, including meetings for tutorial or other supplementary instruction, and meetings for Laboratory practice where required.

VI. (1) Of the courses of instruction in the subjects of the Curriculum, three at least shall be taken in the University of Glasgow.

(2) The other courses of instruction may be taken in another Scottish University, or in a University, College, or Training Centre, approved by the University Court for purposes of graduation in Education: provided that the University Court is satisfied, after consultation with the Senatus that such courses are equivalent in scope and standard to the qualifying courses in corresponding subjects given in the University of Glasgow; and provided further that the fees payable for such courses, taken for purposes of graduation at an approved College or Training Centre in Glasgow, are not less than the fees payable for corresponding courses in the University.

VII. (1) The Senatus shall institute a Board of Studies in Education, including therein such Members of the Senatus and Lecturers in the University as it may from time to time select; and the Senatus shall appoint one of the Members of the Board to be Convener thereof.

(2) The Principal and the Dean of the Faculty of Arts shall be *ex officio* Members of the Board of Studies. The Convener shall preside if present, and in his absence each meeting shall appoint its own Chairman; and the Convener or Chairman, as the case may be, shall have a deliberative and, in cases of equality, a casting vote.

(3) The Board of Studies may invite the attendance, for purposes of consultation, of any Lecturer of an approved College or Training

Centre in Glasgow, who conducts a qualifying course of instruction in any subject of the Curriculum.

(4) Before the end of each session the Board of Studies shall prepare and submit to the Faculty of Arts a scheme setting forth the special subjects and books proposed for the qualifying courses of instruction, and for the corresponding Examinations for the Degree to be held, in the case of the First Examination, within the next academical year, and, in the case of the Final Examination, within the next academical year but one. The scheme, with such observations as the Faculty may see fit to make thereon, shall then be transmitted to the Senatus for its sanction.

VIII. (1) A Candidate for the Degree shall not be deemed to have attended a qualifying course as part of the Curriculum who does not present a Certificate bearing not only that he has regularly attended the course, but also that he has duly performed the work thereof.

(2) Courses of instruction which have been already taken as part of the course of study required for the previous degree shall not be accepted as qualifying courses for the Second Stage of the Curriculum.

IX. (1) There shall be a First (or Diploma) Examination in Education, which shall include the subjects of the First Stage of the Curriculum. The subjects may be taken together or separately. A Candidate shall not be exempted from examination in any of the subjects of the First Examination on the ground that he has passed in a corresponding subject at the examinations for the previous degree.

(2) A Candidate shall not be admitted to the First Examination until he has obtained the previous degree, nor until the end of one session after the completion of the third academical year of study required for the previous degree.

(3) Before admission to the First Examination the Candidate shall produce evidence (i) that he has diligently attended a course of Professional Training, extending over not less than two academical years, under a Provincial Committee for the Training of Teachers, or in an approved Training College for Teachers, and has received a Certificate of proficiency as a Teacher; *or* (ii) that he has, after obtaining the previous degree, diligently attended a course of Professional Training, extending over not less than one academical year, under a Provincial Committee for the Training of Teachers or in an approved Training College for Teachers, and has received a Certificate of proficiency as a Teacher; *or* (iii) that he has, after obtaining the previous degree, held appointment for not less than three years as a Teacher in one or more Schools or Educational Institutions, approved for this purpose by the University Court, after consultation with the Senatus.

(4) The prescribed conditions being fulfilled, the Candidate may present himself for examination at any Examination held after

he has attended the qualifying courses of the First Stage of the Curriculum.

(5) The standard of the First Examination shall correspond to that of the Higher Ordinary examinations for the Ordinary Degree of Master of Arts.

(6) A Candidate who has obtained a Diploma in Education, in this or in another University, under conditions that are in the opinion of the Senatus substantially equivalent to those prescribed in this Ordinance, may be exempted by the Senatus from attendance on all or any of the courses of the First Stage of the Curriculum, and from passing the whole or a part of the First examination.

X. (1) There shall be a Final (or Honours) Examination in Education, which shall include the subjects of the Second Stage of the Curriculum. The subjects must be taken together. A Candidate shall not be exempted from examination in any of the subjects of the Final Examination on the ground that he has passed in a corresponding subject at the examinations for the previous degree.

(2) A Candidate shall not be admitted to the Final Examination until he has passed (or obtained exemption from) the First Examination, nor until the end of two sessions after the completion of the third academical year of study required for the previous degree.

(3) The prescribed conditions being fulfilled, the Candidate may present himself for examination at any Examination held after he has attended the qualifying courses of the Second Stage of the Curriculum.

(4) The standard of the Final Examination shall correspond to that of the examinations in the subjects of an Honours Group for the Degree of Master of Arts with Honours.

(5) The names of the successful Candidates for the Final Examination shall be grouped by the Examiners in two classes; and the names in each class shall be arranged in alphabetical order.

(6) A Candidate who has failed to pass the Final Examination may, under such conditions as may from time to time be prescribed by the Senatus with the approval of the University Court, be re-admitted to the Examination.

XI. The Examiners shall be the Professors or Lecturers in the University who conduct qualifying courses in the subjects of the Curriculum, together with such additional Examiners in Education as may be appointed by the University Court. Professors, Lecturers, or Assistants in any other Scottish University shall be eligible for appointment as additional Examiners in Education. The mode of conducting the Examinations shall be regulated by the Senatus.

XII. The fee for admission to the Examinations for the Degree of Bachelor of Education shall be six guineas, and the proportion of the fee to be paid at each Examination shall be regulated from time to time by the University Court. If a Candidate who has

failed to pass any of the Examinations is re-admitted to examination, the University Court shall have power to charge a fee for such re-admission.

XIII. A Candidate who, having fulfilled the prescribed conditions, has passed the First Examination shall be entitled, on payment of the required fees, to receive a University Diploma in Education, in which shall be set forth the subjects in which he has passed. A Candidate who, having fulfilled the prescribed conditions, has passed (or obtained exemption from) the First Examination and has also passed the final Examination shall be entitled, on payment of the required fees, to be admitted to the Degree of Bachelor of Education, and shall receive a Diploma in which shall be set forth the subjects in which he has passed, and the class in which his name has been placed in the Final Examination.

XIV. The Degree of Bachelor of Education shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causa tantum*.

XV. Graduates who have obtained any degree in the University of Glasgow, and who have subsequently obtained the Degree of Bachelor of Education, may offer themselves as Candidates for the Degree of Doctor of Science, Doctor of Philosophy, or Doctor of Letters, after the expiry of five years from the date of admission to the previous degree, as if they were qualified in the manner set forth in sections I., IV., and VII. respectively of University Court Ordinance No. XXVI. (Glasgow No. 7) [Regulations for Higher Degrees in Arts and Science].

XVI. This Ordinance shall come into force at the beginning of the academical year next after the date of its approval by His Majesty in Council.

[Approved, 10th May, 1917.]

#### 4.—HIGHER DEGREES IN ARTS AND SCIENCE.

In University Court Ordinance No. XXVI., issued on 11th June, 1908, and approved by His Majesty in Council on 26th September, 1908, the University Court made the following regulations for Higher Degrees in Arts and Science:—

##### DEGREE OF D.SC.

I. Graduates who have obtained any degree in the University of Glasgow, and who have either before or after graduation passed the Examination in an Honours Group<sup>1</sup> for the degree in Arts, or the Final Science Examination for the degree in Pure Science or in Engineering, may offer themselves for the degree of Doctor of Science (D.Sc.) after the expiry of five years from the date of their graduation.

<sup>1</sup> A Certificate of Proficiency in the subjects of an Honours Group is held as equivalent to "the Examination in an Honours Group" for the purpose of going forward to a Higher Degree.

II. Research Students within the meaning of Ordinance No. 61 [General, No. 23.—Regulations for the Encouragement of Special Study and Research and for the Appointment of Research Fellows], who have prosecuted in the University of Glasgow [or in a College affiliated thereto] some special study or research under that Ordinance, may offer themselves for the degree of Doctor of Science: provided—

(1) That they have obtained a degree in any Scottish University, or a degree in another University specially recognised by the University Court for the purpose of this section which the Senatus shall deem to be equivalent to the corresponding degree in the University of Glasgow; and provided that candidates who have obtained any such degree in a University outside the United Kingdom so recognised may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of Doctor of Science, to pass an examination equivalent to an Honours or to a Final Science Examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two terms in each of two academical years, or an equivalent period, as Research Students in the University of Glasgow [or in a College affiliated thereto], and that they produce to the Senatus evidence of satisfactory progress in the special study or research undertaken by them during that period.

(3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

III. All candidates for the degree of Doctor of Science shall present a thesis or a published memoir or work,<sup>1</sup> to be approved by the Senatus on the recommendation of the Faculty of Science; provided that, if required by the Senatus, the candidate shall also be bound to pass such an examination conducted orally or practically, or by written papers, or by all of these methods, on the subjects of his special study or of his thesis, memoir, or work, as may from time to time be determined. The thesis shall be a record of original research in relation to science undertaken by the candidate, or of some important engineering work designed by the candidate and actually carried out, and shall be accompanied by a declaration signed by him that the work has been done and the thesis composed by himself. If the thesis has not already been published, it shall be published by the candidate in such manner as the Senatus shall approve, and a copy thereof shall be deposited by the candidate in the University Library.

#### DEGREE OF D.PHIL.

IV. Graduates who have obtained any degree in the University of Glasgow, and who have either before or after graduation passed the Examination in an Honours Group<sup>2</sup> for the degree of Arts, or the Final Science Examination for the degree in Pure Science or in Engineering, may offer themselves for the degree of Doctor of

<sup>1</sup> The thesis must be lodged on or before 11th January.

<sup>2</sup> See footnote on p. 341.

Philosophy (D.Phil.) after the expiry of five years from the date of their graduation.

V. Research Students as aforesaid, who have prosecuted in the University of Glasgow some special study under Ordinance No. 61 [General, No. 23.—Regulations for the Encouragement of Special Study and Research, and for the Appointment of Research Fellows], may offer themselves for the degree of Doctor of Philosophy; provided—

(1) That they have obtained a degree in any Scottish University, or a degree in another University specially recognised by the University Court for the purpose of this section which the Senatus shall deem to be equivalent to the corresponding degree in the University of Glasgow; and provided that candidates who have obtained any such degree in a University outside the United Kingdom so recognised may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of Doctor of Philosophy, to pass an examination equivalent to an Honours Examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two terms in each of two academical years, or an equivalent period, as Research Students in the University of Glasgow, and produce to the Senatus evidence of satisfactory progress in the special study undertaken by them during that period.

(3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

VI. All candidates for the degree of Doctor of Philosophy shall present a thesis or a published memoir or work,<sup>1</sup> which shall be an original contribution to learning in relation to philosophy, to be approved by the Senatus on the recommendation of a Special Committee appointed by the Senatus; provided that, if required by the Senatus, a candidate shall also be bound to pass such an examination, conducted orally or otherwise, on the subjects of his special study, or of his thesis, memoir, or work, as may from time to time be determined. The thesis or memoir or work shall be accompanied by a declaration signed by the candidate that it has been composed by himself. If the thesis has not already been published, it shall be published by the candidate in such manner as the Senatus shall approve, and a copy thereof shall be deposited by the candidate in the University Library.

#### DEGREE OF D.LITT.

VII. Graduates who have obtained any degree in the University of Glasgow, and who have either before or after graduation passed the Examination in an Honours Group<sup>2</sup> for the degree of Arts, or the Final Science Examination for the degree in Pure Science or in Engineering, may offer themselves for the degree of Doctor of Letters

<sup>1</sup> The thesis must be lodged on or before 11th January.

<sup>2</sup> See footnote on p. 341.

(D.Litt.) after the expiry of five years from the date of their graduation.

VIII. Research Students as aforesaid, who have prosecuted in the University of Glasgow some special study under Ordinance No. 61 [General, No. 23.—Regulations for the Encouragement of Special Study and Research, and for the Appointment of Research Fellows], may offer themselves for the degree of Doctor of Letters; provided—

(1) That they have obtained a degree in any Scottish University, or a degree in another University specially recognised by the University Court for the purpose of this section, which the Senatus shall deem to be equivalent to the corresponding degree in the University of Glasgow; and provided that candidates who have obtained any such degree in a University outside the United Kingdom so recognised may be required, if the Senatus think fit, before beginning their course as Research Students with a view to the degree of Doctor of Letters, to pass an examination equivalent to an Honours Examination in a group of subjects cognate to their line of work as Research Students.

(2) That they have spent not less than two terms in each of two academical years, or an equivalent period, as Research Students in the University of Glasgow, and produce to the Senatus evidence of satisfactory progress in the special study undertaken by them during that period.

(3) That a period of not less than five years shall have elapsed from the date of the graduation required in sub-section (1) of this section.

IX. All candidates for the degree of Doctor of Letters shall present a thesis or a published memoir or work,<sup>1</sup> which shall be an original contribution to learning in relation to literature, to be approved by the Senatus on the recommendation of a Special Committee appointed by the Senatus; provided that, if required by the Senatus, a candidate shall also be bound to pass such an examination, conducted orally or otherwise, on the subjects of his special study, or of his thesis, memoir, or work, as may from time to time be determined. The thesis or memoir or work shall be accompanied by a declaration signed by the candidate that it has been composed by himself. If the thesis has not already been published, it shall be published by the candidate in such a manner as the Senatus shall approve, and a copy thereof shall be deposited by the candidate in the University Library.

#### GENERAL.

X. Notwithstanding, and in supplement of the provisions of Ordinance No. 13 [General, No. 8.—Regulations as to Examinations], sections XIV. and XV., the Senatus shall appoint such Professors or Lecturers in the University as it may think suitable to examine the theses and to conduct the examination of candidates who may offer themselves under the provisions of Ordinance No. 12 [General, No. 7.—Regulations for Degrees in Science] or of Ordinance No. 23 [Glasgow, No. 2.—Regulations for Degrees in Science in Engineering]

<sup>1</sup> The thesis must be lodged on or before 11th January.

or of this Ordinance, for the degree of Doctor of Science, Doctor of Philosophy, or Doctor of Letters; and the University Court shall, after consultation with the Senatus, appoint one or more additional Examiners to act along with them in adjudicating on the merits of the candidates. Every such additional Examiner shall be a person of recognised eminence in the subject of the thesis or memoir or work which is to be submitted for approval, and may be a Professor or Lecturer in any Scottish University other than the University of Glasgow. The result of the examination and adjudication shall be reported to the appropriate Faculty or Special Committee of Senatus, who shall if they think fit make a recommendation thereon to the Senatus; and no candidate shall be approved for the degree unless the Senatus is satisfied that his work is of distinction as a record of original research undertaken by himself, or of important engineering work designed by himself and actually carried out, or as an original contribution to learning.

XI. The degrees of Doctor of Science, Doctor of Philosophy, and Doctor of Letters shall in no case be conferred on persons who have not satisfied the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum*.

XII. The fee to be paid for the degree of Doctor of Science shall be ten guineas, and shall be payable on each occasion on which the candidate offers himself for the degree.

XIII. The fee to be paid for the degree of Doctor of Philosophy shall be ten guineas, and shall be payable on each occasion on which the candidate offers himself for the degree.

XIV. The fee to be paid for the degree of Doctor of Letters shall be ten guineas, and shall be payable on each occasion on which the candidate offers himself for the degree.

XV. This Ordinance shall come into force from and after the date on which it is approved by His Majesty in Council.

#### 5.—GRADUATION IN MEDICINE AND SURGERY.

The Degrees in Medicine and Surgery conferred by this University are all recognised by the Medical Acts as qualifying for practice throughout the British Dominions, and for admission to the Army, Navy, and Public Medical Service.

#### NEW MEDICAL ORDINANCE.<sup>1</sup>

The provisions of University Court Ordinance No. XXXI., Glasgow No. 9 [Regulations for Degrees in Medicine], which was approved by His Majesty in Council on 25th May, 1911, and came into operation on 1st October, 1911, are as follow:<sup>2</sup>

<sup>1</sup> The regulations for graduation in force previous to 1st October, 1911, are stated in the *University Calendars* of 1915-16 and earlier years.

<sup>2</sup> The Rules, Conditions, etc., made by the Senate and approved by the University Court, marked \*, have been inserted after the various Sections to which they are related.

## DEGREES AND DIPLOMAS IN MEDICINE AND SURGERY.

I. Four Degrees in Medicine and Surgery shall be conferred by the University of Glasgow, namely, Bachelor of Medicine (M.B.), Bachelor of Surgery (Ch.B.), Doctor of Medicine (M.D.), and Master of Surgery (Ch.M.). The Degree of Bachelor of Surgery shall not be conferred on any person who does not at the same time obtain the Degree of Bachelor of Medicine, and the Degree of Bachelor of Medicine shall not be conferred on any person who does not at the same time obtain the Degree of Bachelor of Surgery.

II. Subject to Regulations to be made from time to time by the University Court, on the recommendation of or after consultation with the Senatus, the University may confer Diplomas in Special Branches of Medical and Surgical Practice on graduates in Medicine and Surgery of the University of Glasgow, and also on other legally qualified medical practitioners who shall have pursued a prescribed course of study in the University.

## ACADEMICAL YEAR.

III. The academical year shall commence on the first day of October. In each academical year there shall be one medical session, which shall include not less than thirty teaching weeks. The medical session shall be divided into three terms, each including about ten teaching weeks. Two such terms shall for the purpose of reckoning the duration of Medical study be deemed the equivalent of one winter session, and one such term shall be deemed the equivalent of one summer session. The days on which courses of instruction shall open and close in each term shall be determined by the Senatus, with the approval of the University Court.

## PRELIMINARY EXAMINATION.

IV. Before commencing his course of Medical study, each student shall pass a Preliminary Examination in (1) English, (2) Latin, (3) Mathematics, and (4) an Additional Language, namely, Greek, French, German, Italian, or such other language as the Senatus may approve:<sup>1</sup> Provided always that, in the case of a student whose native language is other than English, an examination in any other classical language, for example, Sanskrit or Arabic, may be substituted for an examination in Latin, and an examination in the student's native language may be substituted for an examination in the Additional Language.<sup>2</sup>

<sup>1</sup> The Senatus have approved Dutch, Spanish, Celtic, Serbian.

<sup>2</sup> The candidate for the Degrees of Bachelor of Medicine and Bachelor of Surgery must have been registered in the books of the General Medical Council at least five years prior to the date of his graduation. In order to be so registered he must transmit to James Robertson, Esq., the Scottish Branch Registrar, 54 George Square, Edinburgh, together with a printed form of application, which may be obtained from the Registrar, The University, a certificate of having passed the Preliminary Examination, and satisfactory evidence of the applicant having attained the age of sixteen years.

<sup>3</sup> Each applicant for examination in a special subject in the Preliminary Examination shall pay, in addition to the statutory fee for Preliminary Examination, the sum of One Guinea, and should the applicant be successful in passing the examination in the special subject he shall be entitled to recover the sum of One Guinea when he has become a matriculated student of the University, i.e., has entered his name in the Matriculation Album, and has been enrolled in at least one University Class.

V. The extent and standard of the Preliminary Examination shall be determined by the Joint-Board of Examiners constituted under Ordinance No. 13, General No. 8 [Regulations as to Examinations] in accordance with the terms of that Ordinance.

Under this section the Joint-Board have directed that for the Medical Preliminary Examination the papers set in Latin, Greek, and Mathematics shall be the same as those set on the lower standard in these subjects in the Arts and Science Preliminary Examination.<sup>1</sup>

In English, no set books shall be prescribed, nor shall a general knowledge of the life and works of the greater authors be expected of candidates, but one or two questions may be set, giving an opportunity to candidates to show a knowledge of famous literary works. The historical questions shall not be confined to any one period, but shall cover the whole of British History, and shall be set in such a way as to give an opportunity to candidates who have confined their studies to a single period to show their knowledge. A single three hours' paper shall be set, containing an Essay, a Paraphrase, two questions on History, two on Geography, four on Grammar (including correction of sentences, parsing, analysis of sentences, and derivations), two of a literary and general kind. Eight answers shall be required. The eight shall include the Essay and the Paraphrase, and at least one question in History and one in Geography.

One paper shall be set in French and one in German. The papers shall be of a lower standard than those set in these subjects in the Arts and Science Preliminary Examination. The time allowed for each of these papers shall be three hours. The paper in each subject shall comprise questions in Grammar, translation into English, and Composition (including a continuous passage and short sentences of an idiomatic character).

The papers set in examinations in an "Additional Language" approved by the Senatus, or in the student's native language (as a substitute for the Additional Language), or in another classical language (as a substitute for Latin) shall conform, so far as possible, to the directions for setting papers in Modern Languages and in Latin respectively.

It shall be in the option of any candidate for the Medical Preliminary to take the papers set on the higher standard for the Arts Preliminary in any of the subjects.

Candidates who, having taken English or a Modern Language on the higher standard, as prescribed by the Arts Ordinance for the Arts and Science Preliminary, have obtained a satisfactory percentage of marks, shall be held to have passed the Medical Preliminary in these subjects, provided that all the required subjects are passed at not more than two preliminary examinations.

It shall be at the Board's discretion at all times in the case of any candidate for the Medical Preliminary who professes all his four subjects at one time, and who has obtained in all a number of marks equivalent to the sum of the marks required for a pass in each, to allow such candidate a pass in the whole examination, provided that in no

<sup>1</sup> For details see p. 240.

single subject he has obtained less than half of the marks required for a pass, and that the pass-mark be reached in the English paper. Special consideration is given, at the discretion of the Board, in the case of foreign candidates; but a candidate whose native language is not English must have passed in at least two of the subjects without deduction being made on his behalf from the ordinary standard prescribed by the Board in these subjects.

VI. The Preliminary Examination shall be conducted in accordance with the provisions of Ordinance No. 13, General No. 8 [Regulations as to Examinations]; and subject to the provisions of the immediately succeeding Section hereof, a student shall be obliged to pass in all the required subjects at one or not more than two examinations; provided that he may offer himself for re-examination as often as may be necessary to satisfy this condition.

VII. A Degree in Arts or in Science (not being a Degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Indian, Colonial, or Foreign University specially recognised for the purpose by the University Court, shall exempt from the Preliminary Examination; and the Joint-Board of Examiners appointed under the provisions of Ordinance No. 13, General No. 8 [Regulations as to Examinations] shall have power to determine what examinations, other than those for the Degrees hereinbefore mentioned, shall be accepted, either in whole or in part, in place of the Preliminary Examination.<sup>1</sup>

The Joint-Board have issued the following rules under the heading:—Examinations accepted as exempting from the Preliminary Examination in Medicine: *Provided always that the regulations of the General Medical Council regarding the registration of students be complied with:—*

#### EXEMPTION UNDER ORDINANCE.

1. In terms of the Medical Ordinances, “a degree in Arts or in Science (not being a degree *honoris causa tantum*) in any of the Universities of the United Kingdom, or in any Indian, Colonial or Foreign University specially recognised for the purpose by the University Court, shall exempt from the Preliminary Examination.”

#### SCOTLAND.

#### EXEMPTIONS BY THE JOINT BOARD.

##### I. ARTS AND SCIENCE PRELIMINARY EXAMINATIONS.

1. Any candidate who produces a certificate of having passed the Preliminary Examination in Arts or Science in any Scottish University, either at the University Examination or through the Leaving Certificate Examinations of the Scotch Education Department, or partly at the University Examination and partly through the Leaving Certificate Examinations, shall be deemed to have passed the Preliminary Examination for Medicine: Provided that his examination

<sup>1</sup> Applications for exemption on the ground of having passed examinations not included in the following list should be addressed to the Convener of the Joint Board. As all the Universities have to be consulted, a decision on a new case cannot be guaranteed in less time than two or three weeks.

has included the specified subjects of General Education as required under the Regulations of the General Medical Council, and by the Medical Ordinances of the Scottish Universities.

2. A candidate who has passed the Arts and Science Preliminary Examination, and on the Higher Standard where there is more than one standard, in any subject recognised for the Medical Preliminary Examination, shall be exempted from further examination in that subject.

## II. LEAVING CERTIFICATES OF THE SCOTCH EDUCATION DEPARTMENT.

1. A candidate who passed on the Higher Grade in any subject of the Leaving Certificate Examination of the Scotch Education Department recognised for the Medical Preliminary Examination shall be exempted from further examination in that subject.

2. The Leaving Certificate of the Scotch Education Department will be accepted as exempting from the Medical Preliminary Examination provided that it includes the four requisite subjects.

3. The Intermediate Certificate of the Scotch Education Department will be accepted as exempting from the Medical Preliminary Examination, provided that it includes the four requisite subjects. [When all the necessary subjects are not included, passes in individual subjects in the Intermediate Certificate Examination are accepted only under authority for each case from the Scotch Education Department. In this connection candidates are requested to write with full particulars to the Secretary, Scotch Education Department, Edinburgh, asking that intimation be made to the Registrar, The University, Glasgow, as to whether a sufficient standard was reached.]

4. Passes in the Lower Grade of the Leaving Certificate Examination of the Scotch Education Department will not be accepted as exempting from the Medical Preliminary Examination unless the examinations in all the requisite subjects have been taken and passed at one or not more than two examinations.

*Note.*—Except as provided in Section II. (4) above, the Regulation that all the subjects of the examination shall be passed at one or not more than two examinations shall not be held to apply in the cases dealt with in Sections I. and II. above, but candidates applying under these sections must obtain a University Certificate, specifying the examinations passed by them, which have been accepted as equivalent to the Medical Preliminary Examination, and must present the said Certificate to the Medical Registrar in order to registration.

## ENGLAND AND IRELAND.

### III. ENGLISH AND IRISH UNIVERSITY EXAMINATIONS.

The following English and Irish University Examinations will be accepted as exempting from the Medical Preliminary Examination subject to the following conditions:

(a) That they include the subjects required under the Regulations of the General Medical Council and prescribed by the Medical Ordinances of the Scottish Universities.

(b) That, where total exemption is claimed, all the required subjects shall have been passed at one or not more than two examinations; and that when exemption in one or more subjects is claimed, all the remaining required subjects shall be passed at one or not more than two Preliminary Examinations.

(1) *University of Oxford.*

(a) A pass in Responsions or in Moderations will exempt from the Medical Preliminary Examination provided that the candidate shall also pass the Scottish Universities Preliminary Examination in English.

(b) A pass in the Oxford Higher Local Examinations will exempt from further examination in all the subjects included.

(c) A pass with credit in the Oxford Senior Local Examination will exempt from further examination in all the subjects included other than English. In English, when the applicant has only a pass with credit, exemption will be allowed only if Composition has been taken, with Literature or a Literary Subject.

(2) *University of Cambridge.*

(a) A pass in the Previous Examination, if subsequent to Michaelmas Term, 1896, will exempt from the Medical Preliminary Examination. If the pass is prior to that date, the applicant shall also pass the Scottish Universities Preliminary Examination in English.

(b) A pass in the Cambridge Higher Local Examinations will exempt from further examination in all the subjects included.

(c) A pass in the Cambridge Senior Local Examinations will exempt from further examination in subjects (other than English) which are recognised for the Medical Preliminary Examination, provided they are specified on the face of the certificate as having been passed on the "standard of recognition." For exemption in English, a pass on the "standard of recognition" in *English Composition* and *English Literature* with either *History of England* (or *History of the British Empire*) or *Geography* will be accepted.

(3) *Oxford and Cambridge Schools Examination Board.*

The passes in *Latin*, *Greek*, and *Mathematics* specified on p. 244 as exempting from the Lower Standard in these subjects in the Arts and Science Preliminary will exempt from the same subjects in the Medical Preliminary Examination.

In addition to the passes in *French* and *German* specified on p. 244 as exempting from these subjects in the Arts and Science Preliminary, a pass in *French* or *German* for the Lower Certificate or a pass with credit for the School Certificate in *French* or *German* will exempt from these subjects in the Medical Preliminary Examination.

In addition to the passes in English specified on p. 244 as exempting from the Arts and Science Preliminary, a pass for the Lower Certificate in English, History, and Geography will exempt from English in the Medical Preliminary Examination.

(4) *University of London.*

A pass in the Matriculation Examination will exempt from further examination in all the subjects included.

(5) *Universities of Manchester, Liverpool, Leeds, Sheffield, and Birmingham.*

## (a) Joint Matriculation Examination.

A pass will exempt from the Medical Preliminary Examination, provided that the whole examination has been passed, as required for admission to the Medical Faculties of these Universities.

## (b) Higher Certificate Examination.

The passes in *English, Latin, Greek, Mathematics (Pure or Higher Pure), French and German*, accepted for the Arts and Science Preliminary Examination will be accepted as exempting from the same subjects in the Medical Preliminary Examination.

## (c) School Certificate Examination.

A pass with credit in any subject recognised for the Medical Preliminary Examination will exempt from that subject.

(6) *University of Durham.*

The Matriculation Examination will be accepted *pro tanto*.

(7) *University of Bristol.*

The Matriculation Examination will be accepted when candidates have taken all the subjects required by the Medical Ordinances of the Scottish Universities.

(8) *Queen's University of Belfast.*

A pass in the Matriculation Examination will exempt from the Medical Preliminary Examination.

## OVERSEAS DOMINIONS, ETC.

## IV. THE BRITISH EMPIRE OVERSEAS.

Candidates from British Dominions, Colonies, Dependencies, and Protectorates, who present evidence that they have passed all the Preliminary Examinations prescribed for students proceeding to graduation in Medicine in a University or College empowered to confer degrees in the Dominion, Colony, Dependency, or Protectorate from which they come will be exempted from the Medical Preliminary Examination, provided :—

(1) That their examination includes all the subjects prescribed by the Medical Ordinances of the Scottish Universities, and that they are recognised by the General Medical Council.

(2) That there is evidence to show that their knowledge of English is sufficient to enable them to follow the courses of instruction with profit.

N.B.—*In and after the academical year 1919-20, in the case of candidates whose native language is other than English, this exemption will not include English. The above candidates, and all other candidates whose native language is other than English, will be required to pass an examination in English designed to test their ability to understand and use the language sufficiently for the purpose of study at a Scottish University.*

## FOREIGN COUNTRIES.

## V. FOREIGN COUNTRIES.

Subject to the same provisions as those laid down in Section IV. for applicants from British Dominions, etc., the French Bacca-

lauréat-ès-Lettres and Baccalauréat-ès-Sciences and Certificates of Maturity which would admit to the study of Medicine in the Universities of other European countries will exempt from the Medical Preliminary Examination.

The First Class Certificates of the Anglo-Chinese College, Amoy, will exempt from the Medical Preliminary Examination.

[Students would do well to ascertain, by application to the Registrar, whether their Preliminary Examination is complete before beginning their medical studies.]

#### PROFESSIONAL EDUCATION FOR THE DEGREES OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY.<sup>1</sup>

VIII. Candidates shall be admitted to the Degrees of Bachelor of Medicine and Bachelor of Surgery only after they have fulfilled the following conditions with reference to Medical study :

1. The candidate must have pursued Medical study for not less than five years by attending courses of instruction in the subjects of the Curriculum during not less than fifteen terms.
2. During each of twelve terms preceding the fifth or final year the candidate must have attended one or more of the prescribed courses of instruction in the subjects of the Curriculum.
3. During the fifth or final year of his Curriculum the candidate must have pursued Clinical study for at least nine months or three terms at one or more of such Public Hospitals or Dispensaries, British or Foreign, as may be recognised for the purpose by the University Court, after consultation with the Senatus.
4. The candidate must, during his Curriculum, have attended a course or courses of instruction in each of the following subjects of study, extending over not less than the number of terms specified in each case, and including such class examinations as may be prescribed in connexion with the several courses :
  1. Chemistry (including Organic Chemistry), - - - 2 terms.  
with Practical Chemistry, - - - - - 1 term.
  2. Physics (with practical work), - - - - - 1 term.
  3. Botany (with practical work), - - - - - 1 term.
  4. Zoology (with practical work), - - - - - 1 term.
  5. Anatomy and Practical Anatomy, - - - - - 5 terms.
  6. Physiology and Practical Physiology, - - - - - 3 terms.
  7. Materia Medica and Therapeutics (together or separately), - - - - - each subject, 1 term.
  8. Pathology and Practical Pathology, - - - - - 3 terms.
  9. Medical Jurisprudence and Public Health (together or separately), - - - - - each subject, 1 term.
  10. Midwifery and Diseases peculiar to Women and to Infants, - - - - - - - - - 2 terms.
  11. Surgery, - - - - - - - - - 2 terms.
  12. Medicine, - - - - - - - - - 2 terms.

<sup>1</sup> For Suggested Schemes of Study, see pp. 136-139.

Provided always that—

(a) The Senatus, with the approval of the University Court, shall have power, after receiving through the Faculty of Medicine the opinion of the Board of Studies, to determine from time to time the number of meetings of which such courses shall consist, the cases in which two half-courses shall be deemed equivalent to a full course, and the cases in which the subjects of such courses may be subdivided or combined for the purposes of study.

(b) It shall be the duty of each of the Professors and Lecturers to submit to the Board of Studies annually before the end of the second term of the medical session a scheme specifying what proportion of the courses shall be devoted to lectures, practical work, examinations, and tutorial instruction respectively. The Board of Studies shall transmit the schemes to the Faculty of Medicine, who shall submit them to the Senatus, with such observations as the Faculty may think fit to make thereon. The Senatus shall transmit such schemes, with such observations and recommendations as it may think fit to make thereon, to the University Court for its approval.

(c) The University Court shall have power, by Regulations made from time to time, on the recommendation of or after consultation with the Senatus, to increase the number of terms over which a course of instruction in any subject of study shall extend, or to introduce into the Curriculum additional subjects of study, or to extend the duration of the Curriculum beyond the period of fifteen terms. The University Court shall communicate to the General Council all Regulations proposed to be so made; and any representations made thereon by the General Council within two months from the date of such communication shall be taken into consideration by the University Court before any such Regulation is made.

5. The candidate must have attended for at least three years or nine terms the Medical and Surgical Practice of a General Hospital in Glasgow or elsewhere, which accommodates not fewer than eighty patients, and possesses distinct staffs of Physicians and Surgeons, and is recognised for the purpose by the University Court, after consultation with the Senatus.<sup>1</sup>
6. The candidate must have attended, in a General Hospital defined and recognised as hereinbefore provided, a course or courses of instruction in Clinical Surgery extending over nine months or three terms, or over such longer period as may from time to time be determined by the Senatus, with the approval of the

<sup>1</sup>With reference to Sect. VIII., 5 and 10, attention is called to the following regulation made by the Senate:—

"Clinical service during the continuance of the War, for any period of not more than twelve months in a Medical Unit of the Regular or Territorial Forces, or in a Hospital or detachment of the Red Cross Society on Active Service, or in any Hospital recognised by the military or naval authorities for war purposes, will be accepted by the University as equivalent to the medical and surgical practice required in a recognised Hospital for an equal period; and further, any portion or the whole of the time so spent will be accepted as equivalent to time spent either as a Clinical Clerk or as a Dresser, at the choice of the candidate."

[A satisfactory certificate from a Medical Officer that the student had been engaged in medical work during his period of military duty will also be accepted.]

University Court. These courses may be conducted by a Professor of Surgery, or by other Professors or Lecturers appointed for the purpose by the University Court, or by the Ordinary Surgeons of the Hospital, and shall consist of regular instruction at the bedside, together with Clinical Lectures or Demonstrations.

The University Court, after consultation with the Senatus, shall have power to prescribe, as a condition of recognition of any General Hospital in Glasgow where courses of instruction in Clinical Surgery qualifying for graduation are conducted, that the number of students attending a class for regular instruction at the bedside shall not exceed a specified limit.

7. The candidate must have attended, in a General Hospital defined and recognised as hereinbefore provided, a course or courses of instruction in Clinical Medicine extending over nine months or three terms, or over such longer period as may from time to time be determined by the Senatus, with the approval of the University Court. These courses may be conducted by a Professor of Medicine, or by other Professors or Lecturers appointed for the purpose by the University Court, or by the Ordinary Physicians of the Hospital, and shall consist of regular instruction at the bedside, together with Clinical Lectures or Demonstrations.

The University Court, after consultation with the Senatus, shall have power to prescribe, as a condition of recognition of any General Hospital in Glasgow where courses of instruction in Clinical Medicine qualifying for graduation are conducted, that the number of students attending a class for regular instruction at the bedside shall not exceed a specified limit.

8. The candidate must have attended a course of instruction in Mental Diseases of such duration, and so apportioned between lectures, demonstrations, and clinical instruction, as the Senatus, with the approval of the University Court, may from time to time prescribe.

\* \* The course of instruction in Mental Diseases shall be given by a University Lecturer or by a recognised Teacher, and shall include not less than eighteen meetings of the class. Of these six may be for class-room lectures, and the remainder for demonstrations in the wards of an asylum for the insane.

9. The candidate must have attended a course of instruction in Practical Pharmacy, consisting of not less than twenty-five meetings, at a University or recognised Medical School, or have dispensed drugs for a period of three months in a Public Hospital or Dispensary, or in the establishment of any chemist and druggist or pharmacist or pharmaceutical chemist of Great Britain or any pharmaceutical chemist of Ireland who is registered in the books of the Pharmaceutical Society of Great Britain or of the Pharmaceutical Society of Ireland respectively.
10. The candidate must, under such conditions as the Senatus, with the approval of the University Court, may from time to time

prescribe, have attended during six months or two terms the out-patient practice of a Public Hospital or Dispensary, and have acted during six months or two terms as Clinical Clerk in the Medical department and during six months or two terms as Clinical Clerk or Dresser in the Surgical department of a Public Hospital: Provided always that the Senatus, with the approval of the University Court, shall have power to extend any of the periods herein prescribed.

11. The candidate must have received at a Public Hospital or Dispensary, to such an extent and under such conditions as the Senatus, with the approval of the University Court, may from time to time prescribe, practical instruction in *post-mortem* Examinations, Infectious Diseases, Gynæcology, Diseases of Children, Ophthalmology, Diseases of the Ear and Throat, Dermatology, or such other special departments as may from time to time be determined by the same authority.

\*. Courses of practical instruction in the following departments have been prescribed:

1. Demonstrations in the *post-mortem* room of a recognised hospital, with practical instruction in the method of making *post-mortem* examinations. Attendance at not less than twenty *post-mortem* examinations is required.

2. A course of clinical instruction in Fevers and other Infectious Diseases, including at least ten meetings of the class, at a hospital for infectious diseases containing not less than fifty beds.

3. Courses of practical instruction in Gynæcology, in Diseases of Children, and in Diseases of the Ear and Throat, including at least twenty meetings of the class, each meeting being for clinical and practical demonstrations. Where Diseases of the Ear and Diseases of the Throat are taught in separate courses, each separate course shall include at least ten meetings of the class.

4. A course of practical instruction in Ophthalmology, including at least twenty meetings of the class. Of these, six may be for class-room lectures, and the remainder for clinical demonstrations in the wards of a hospital recognised for the purpose, or partly in the wards of a hospital and partly in a dispensary, both recognised for the purpose.

5. A course of practical instruction in Dermatology, including at least ten meetings of the class, each meeting being for clinical and practical demonstrations.

12. The candidate must have conducted twenty cases of labour, under such conditions as the Senatus, with the approval of the University Court, may from time to time prescribe.

\*. In accordance with the rules of the General Medical Council the following conditions are prescribed:

1. The candidate must previously have held the offices of Clinical Medical Clerk and Surgical Dresser, and have attended a course of lectures on Surgery and on Midwifery.

2. The candidate must *either*—

(a) Have regularly attended the indoor practice of a Lying-in Hospital, or the lying-in wards of a General Hospital, for a period of three months; and after having received therein practical instruction in the conduct of labour, under the personal supervision of a Medical Officer, have conducted twenty cases of labour under official medical supervision ; *or*

(b) Have conducted not less than twenty cases of labour, subject to the following conditions—

That he has, during one month, given regular daily attendance upon the indoor practice of a Lying-in Hospital, or the lying-in wards of a General Hospital or Poor-Law Infirmary having a resident Medical Officer recognised for that purpose by any of the Licensing Bodies, and that he has therein conducted cases of labour under the personal supervision of a Medical Officer of the Hospital or Infirmary, who shall, when satisfied of the candidate's competence, authorise him to conduct outdoor cases under official medical supervision.

13. The candidate must have been properly instructed in Vaccination, at a Public Vaccination Station, by a Public Vaccinator authorised by a proper Government Authority to grant Certificates of Proficiency in Vaccination.<sup>1</sup>
14. The candidate must have been properly instructed in the Administration of Anæsthetics and in Operative Surgery, under such conditions as the Senatus, with the approval of the University Court, may from time to time prescribe.

\*. The candidate must present a certificate from a Professor, Lecturer, or Teacher giving a course of instruction in Clinical Surgery, testifying that, after having received theoretical instruction in Anæsthetics, the candidate has acquired practical experience in their administration.

The course of instruction in Operative Surgery shall include not less than thirty hours of practical work, and shall extend over at least one month.

15. The Senatus, with the approval of the University Court, shall have power to prescribe the form of the certificate of attendance on any course of instruction, or on the practice of any Hospital or Dispensary, to be presented by the candidate : Provided always that no candidate shall be deemed to have attended a course of instruction for the purposes of graduation who does not present a certificate bearing not only that he has regularly attended the course, but also that he has duly performed the work thereof.
16. The Senatus, with the approval of the University Court, shall have power to require that the course of instruction in any of the subjects of the Curriculum shall include practical work, to prescribe the order in which the several courses of instruction shall

<sup>1</sup> The recognised Vaccine Departments in Glasgow are—Western Infirmary and Royal Infirmary.

be attended, and to limit the number of such courses that may be attended in any term or year.

\* \* The following rules shall be observed :

Of the courses of instruction specified in Section VIII., sub-section 4—

No. 6, Physiology and Practical Physiology, shall not be taken till after the end of the candidate's third term ;

No. 7, Materia Medica and Therapeutics, and No. 8, Pathology and Practical Pathology, shall not be taken till after the end of the candidate's sixth term ;

No. 9, Medical Jurisprudence and Public Health, *shall not be taken before the candidate has completed his attendance on the classes in the subjects of the Third Professional Examination.*

No. 10, Midwifery and Diseases peculiar to Women and to Infants, No. 11, Surgery, and No. 12, Medicine, shall not be taken till after the end of the candidate's ninth term : Provided that a candidate who has passed the professional examination in the subjects of the second division (Anatomy and Physiology) may take the course in No. 11, Surgery, after the end of his sixth term.

The attendance on Hospital Practice required under Section VIII., sub-section 5, and the courses of instruction in Clinical Medicine, Clinical Surgery, etc., prescribed under sub-sections 6, 7, 8, 10, 11, 12, 13, and 14, shall not be taken till after the end of the sixth term.

IX. With respect to the Places and Institutions at which Medical study may be pursued, the following Regulations shall have effect :

1. Not less than two years or six terms of Medical study must be spent in attendance at the University of Glasgow on courses of instruction in the subjects of the Curriculum.
2. Subject to the provision of Section VIII., sub-section 3, the remaining three years or nine terms of Medical study may be spent in attendance on courses of instruction in the subjects of the Curriculum at any University of the United Kingdom, or at such Indian, Colonial, or Foreign University, or at such College incorporated with or affiliated to a University, or at such Medical Schools or under such Teachers, as may be recognised for the purpose by the University Court.
3. Of the subjects of study specified in Section VIII., sub-section 4, not less than one half the number must be studied at the University of Glasgow, or at some other University of the United Kingdom, or at a recognised Indian, Colonial, or Foreign University, or at a recognised College incorporated with or affiliated to a University.
4. Subject to the provision of sub-section 3 immediately preceding, the prescribed courses of instruction in any of the subjects of study specified in Section VIII., sub-section 4, may be attended

at one or more recognised Medical Schools or under one or more recognised Teachers.

5. All candidates, not Matriculated Students of the University, attending, for the purposes of graduation in the University, the courses of instruction of recognised Extra-Academical Teachers in Glasgow, must, during each academical year in which such course or courses are attended, enrol their names in a book to be kept in the University for that purpose, paying a Fee of the same amount as the Matriculation Fee paid by Matriculated Students of the University, and having, in respect of such payment, a right to the use of the Library of the University.
6. The Fee for attendance, for the purposes of graduation, on the courses of instruction of recognised Extra-Academical Teachers in Glasgow, shall be not less than the amount exigible for the corresponding courses in the University.
7. The University Court shall not recognise as qualifying for admission to examination in any of the subjects specified in Section VIII., sub-section 4, the course of instruction of any Teacher who is at the time a Teacher of more than one of the said subjects, except in those cases where Professors in the University are at liberty to teach two subjects: Provided always that a Professor or other Teacher in any endowed public College or Institution, who by the terms of his appointment is required to teach more than one subject of Medical study therein, may be recognised under sub-section 2 of this Section as a Teacher of any one of the subjects which he teaches.
8. A Teacher, attendance on whose course of instruction shall, before the date of the approval of this Ordinance by His Majesty in Council, have been recognised for the purposes of graduation in the University, shall not require to obtain a new recognition from the University Court; and attendance on the course of instruction of every such Teacher may continue to be recognised as heretofore.
9. It shall be in the power of the University Court, if it shall see cause, at any time to withdraw or suspend any recognition which it may have granted.
10. The University Court shall not grant or continue recognition to any Institutions or Teachers unless it shall be satisfied that their courses of instruction are equivalent to the courses prescribed for graduation in the University.

#### PROFESSIONAL EXAMINATION FOR THE DEGREES OF BACHELOR OF MEDICINE AND BACHELOR OF SURGERY.

X. The Examination for the Degrees of Bachelor of Medicine and Bachelor of Surgery shall include the following subjects, arranged in the following divisions, namely: *First*, Chemistry, Physics, Botany, and Zoology; *Second*, Anatomy, and Physiology; *Third*, Materia

Medica and Therapeutics, and Pathology; *Fourth*, Medical Jurisprudence and Public Health, Surgery and Clinical Surgery, Practice of Medicine and Clinical Medicine, and Midwifery and the Diseases peculiar to Women and to Infants.

No candidate shall be admitted to examination in any subject until he has attended the prescribed course of instruction in that subject, and fulfilled the prescribed conditions with reference thereto.

The examination in each subject shall be conducted both orally and in writing; and in those subjects in which practical or clinical instruction is prescribed, and in which a practical or clinical examination may suitably be held, the examination shall be such as to test the practical or clinical acquirements of the candidate. In determining the result of any practical or clinical examination the Examiners, under such conditions as the Senatus, with the approval of the University Court, may from time to time prescribe, may take account of the records of the practical or clinical work done by the candidate himself during his attendance on the prescribed course of instruction.

\* \* Such records of practical or clinical work shall not be taken into account unless they are certified, by the Teacher giving the course of instruction, to be the original records made by the candidate, which were submitted to and approved by the Teacher at the time the work was done.

XI. (a) The Senatus, with the approval of the University Court, shall have power to determine that a prescribed interval shall elapse between the time when a candidate passes the examinations in the subjects of one division and the time of his admission to examination in the subjects of a subsequent division, or that a candidate who has not passed the examinations in the subjects of one division shall be restrained from attendance on qualifying courses of instruction in any subject or subjects of a subsequent division, or that under prescribed conditions a candidate may pass the examinations in the subjects of any division singly or together, or that the examinations in the subjects of any division shall be taken in a prescribed order.

\* \* 1. A candidate who has not passed the examinations in three at least of the subjects of the first division shall not be allowed to attend any part of the qualifying course in Physiology.

2. A candidate who has not passed the examinations in the subjects of the second division (Anatomy and Physiology) shall not be allowed to attend the qualifying course in Surgery till after the end of the ninth term.

3. A candidate may pass the examinations in the subjects of the first division taken singly or together, provided that, when he presents himself for the first time, he passes in at least two subjects (subject to Section XVIII.).<sup>1</sup>

4. A candidate must (subject to Section XVIII.) pass the examinations in the subjects of the second division taken together.

<sup>1</sup> Candidates taking two subjects are requested to note that they must undergo the complete examination in both subjects in order to safeguard their chance of a pass in either.

5. A candidate may pass the examinations in the subjects of the third division taken singly or together.

6. A candidate may pass the examination in Medical Jurisprudence and Public Health separately from the examinations in the other subjects of the fourth division, but not earlier than the end of the twelfth term.

7. A candidate must (subject to Section XVIII.) pass the examinations in the other subjects—Medicine, Surgery, and Midwifery—of the fourth or final division taken together.

(b) The University Court shall have power, by Regulations made from time to time, on the recommendation of or after consultation with the Senatus, to alter the number of the divisions specified in Section X., to introduce additional subjects into any division, or to determine that particular subjects or parts of subjects shall for the purposes of examination be subdivided or combined or transferred from one division to another: Provided always that the final division shall in all cases include practical and clinical examinations in Medicine, Surgery, and Midwifery. The University Court shall communicate to the General Council all Regulations proposed to be so made, and any representation made thereon by the General Council within two months from the date of such communication shall be taken into consideration by the University Court before any such Regulation is made.

XII. The Senatus, with the approval of the University Court, shall have power, in the case of a candidate who at any other Scottish University has attended a qualifying course of instruction and passed the corresponding examination in any of the subjects prescribed for graduation (other than the subjects of Medicine, Surgery, and Midwifery), to determine that such examination shall be accepted as equivalent in whole or in part to the corresponding examination of the University of Glasgow: Provided always that in the judgment of the Senatus the course of instruction is equivalent to the course prescribed for graduation in the University of Glasgow, and that the standard of the examination is satisfactory.

XIII. A candidate who has attended the prescribed course or courses of instruction in any of the subjects comprised in the first division may be admitted to examination therein, at such time and under such conditions as the Senatus, with the approval of the University Court, shall determine.

In the case of a candidate who has, at any University of the United Kingdom, or at any other University specially recognised for the purpose by the University Court, completed a course of instruction and passed an examination in Chemistry, Physics, Botany, or Zoology, or in Biology (including therein Botany and Zoology), qualifying for a Degree in Science or in Arts or in Medicine, the Senatus shall have power to exempt him from passing the examination in the corresponding subject or subjects comprised in the first division: Provided always that in the judgment of the Senatus the course of instruction and the standard of examination are in each case satisfactory, and provided also that he has passed or obtained exemption from the Preliminary Examination in accordance with the provisions of this Ordinance.

XIV. A candidate who has passed the examinations in the subjects comprised in the first division may be admitted to examination in the subjects of the second division after the end of the sixth term of Medical study, or such other term as the Senatus, with the approval of the University Court, shall determine.

XV. A candidate who has passed the examinations in the subjects comprised in the second division may be admitted to examination in the subjects of the third division after the end of the ninth term of Medical study, or such other term as the Senatus, with the approval of the University Court, shall determine.

\*\*\* Students commencing their medical studies in winter may be admitted to the third professional examination at the end of their ninth term of medical study, and those commencing in summer at the end of the tenth term.

XVI. A candidate who has passed the examinations in the subjects comprised in the third division may be admitted to examination in the subjects of the fourth or final division at such time and under such conditions as the Senatus, with the approval of the University Court, shall determine: Provided always that no candidate shall be admitted to the final examinations in Medicine, Surgery, and Midwifery until the end of the fifteenth term of Medical study.

XVII. If any candidate at any of the examinations be found unqualified in a subject or subjects he may not be again admitted to the examination unless he has pursued such further study, for such time and under such conditions, as the Faculty of Medicine may prescribe.

\*\*\* A candidate who has been found unqualified in any subject of the fourth or final division shall not be readmitted to examination unless he furnishes evidence of having further studied that subject for such a period as the Faculty of Medicine, on the report of the Examiners, may prescribe.

XVIII. If any candidate at any of the examinations be found to have passed in a subject or subjects with special merit, he may be exempted from re-examination in such subject or subjects, although he may have been found unqualified in a subject or subjects included in the same examination.

XIX. Every candidate for graduation must, on or before such day as the Senatus may from time to time determine, deliver to the Clerk of the Senatus a declaration, in his own handwriting, that he has completed his twenty-first year, or that he will have completed it on or before the day of graduation.

XX. After the candidate has fulfilled the prescribed conditions and has satisfied the Examiners in the subjects of the fourth or final division of the Examination, the Dean of the Faculty of Medicine shall on behalf of the Faculty report the result to the Senatus, by whose authority the candidate shall be admitted, on such day as the Senatus may from time to time appoint, to the Degrees of Bachelor of Medicine and Bachelor of Surgery, on payment of the required fees.

XXI. Candidates for graduation shall produce evidence of their having conformed to the Regulations which were in force at the time they commenced their course of Medical study, except in so far as is provided in Section XXVII. hereof.

TABLE OF EXAMINATIONS FOR DEGREES IN MEDICINE TO BE HELD DURING SESSION 1918-19.

Fees.	Names to be given in and Fees paid to the Registrar, The University. <sup>1</sup> Date. <sup>2</sup>	Subjects of Examination.	DATES OF WRITTEN EXAMINATIONS AND HOURS AT WHICH THE DIFFERENT PAPERS WILL BE SET.	
			SEPTEMBER—OCTOBER, 1918.	MARCH, 1919.
The Fees are—First Professional, £6 6s.; Second, £6 6s.; Third, £3 3s.; Fourth, £3 3s.	19th to 23rd Aug., 1918, or 10th to 14th Feb., 1919.	Medical Jurisprudence, - Public Health, - Practice of Medicine, - Surgery, - Midwifery, -	Thurs., 19th Sept., 10-12 noon. Do., do., 2-4 p.m. Friday, 20th Sept., 10-12 noon. Do., do., 2-4 p.m. Sat., 21st Sept., 10-12 noon.	Sat., 22nd Mar., 9-11 a.m. Do., do., 12-2 p.m. Thurs., 20th Mar., 10-12 noon. Do., do., 2-4 p.m. Friday, 21st Mar., 2-4 p.m.
	19th to 30th Aug., 1918, or 24th Feb. to 3rd Mar., 1919.	Botany, - Materia Medica, - Physics, - Zoology, - Anatomy, - Chemistry, - Physiology, - Pathology, -	Friday, 27th Sept., 9-11 a.m. Do., do., 9-11 a.m. Do., do., 2-4 p.m. Sat., 28th Sept., 9-11 a.m. Do., do., 9-11 a.m. Do., do., 12-2 p.m. Do., do., 12-2 p.m. Do., do., 12-2 p.m.	Sat., 22nd Mar., 9-11 a.m. Friday, 21st Mar., 9-11 a.m. Sat., 22nd Mar., 2-4 p.m. Friday, 21st Mar., 9-11 a.m. Mon., 24th Mar., 9-11 a.m. Fri., 21st Mar., 2-4 p.m. Mon., 24th Mar., 12-2 p.m. Do., do., 9-11 a.m.

<sup>1</sup> For Women Students, Miss Melville, Queen Margaret College.

<sup>2</sup> When names are not given in and fees are not paid within the stated dates, a late Entry Fee of Twenty Shillings must be paid before the candidate can be enrolled for examination. A candidate is not held to be enrolled for examination until his name is entered, the fee paid, and all the necessary Certificates, etc., lodged. Late Entry Fees will not be accepted less than eight days before the date of examination. Every candidate must matriculate at the University for the session in which he enters for professional examination or for graduation.

For Dates in regard to Medical Preliminary Examination, see page 245.

Any candidate for the Degrees of M.B. and Ch.B. under the New Medical Ordinance re-entering for an examination, shall pay a Re-admission Fee of £1 1s.

PROFESSIONAL EXAMINATION FOR THE DEGREE OF DOCTOR OF  
MEDICINE.

- XXII. 1. Subject to the conditions hereinafter specified, the Degree of Doctor of Medicine may be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Glasgow, and is of the age of twenty-four years or upwards, and has produced a certificate showing that, after having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attending the Medical Wards of an Hospital or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval, Military, Colonial, or Public Health Medical Services, or has been engaged for at least two years in Practice other than Practice restricted to Surgery.
2. Each candidate for the Degree of Doctor of Medicine shall be required to pass an examination in Clinical Medicine or in such special department of Medical Science or Practice professed by the candidate as the Senatus, on the recommendation of the Faculty of Medicine, may approve; and he may be admitted to the examination at such time, not sooner than one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery, as the Senatus may appoint for the purpose.<sup>2</sup>
3. Each candidate for the Degree of Doctor of Medicine shall submit for the approval of the Faculty of Medicine a Thesis on any branch of knowledge, comprised in the several divisions of the Examination for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of special study, excepting a subject that is exclusively surgical; and the Thesis, accompanied by a declaration signed by the candidate that the work has been done and the Thesis composed by himself, shall be lodged with the Dean of the Faculty of Medicine<sup>1</sup> on or before a date to be fixed by the Senatus.<sup>3</sup> The Faculty may, if it sees fit, before approving the Thesis, require the candidate to present himself for oral or other examination on the subject-matter thereof. If the Thesis is, in the judgment of the Faculty, of special merit, the Senatus may, on the recommendation of the Faculty, exempt the candidate from the whole or part of the examination prescribed in sub-section 2 of this Section.<sup>3</sup>
4. A Bachelor of Medicine and Bachelor of Surgery, who produces to the Senatus satisfactory evidence of his intention of entering within twelve months after obtaining such Degrees on the practice of his profession in a British Possession or Colony, or in a Foreign Country, may, under such conditions as the Senatus may from time to time prescribe, be admitted to the examination in Clinical Medicine or in a special department of Medical Science or Practice prescribed in sub-section 2 of this Section,

<sup>1</sup> At the Registrar's Office.

<sup>2</sup> For entry and examination arrangements, see p. 367.

<sup>3</sup> Candidates whose Theses have been awarded "Honours" will be exempted from the examination.

at such time after he has received such Degrees as the Senatus may appoint for the purpose: Provided always that in special circumstances the Senatus may, if it sees fit, on the recommendation of the Faculty of Medicine, exempt him from the whole or part of the examination; but the Degree of Doctor of Medicine shall not be conferred on him unless he shall produce a certificate showing that, after having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attending the Medical Wards of an Hospital or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval, Military, Colonial, or Public Health Medical Services, or for at least two years in Practice other than Practice restricted to Surgery, and unless his Thesis, in the judgment of the Faculty of Medicine, is of special merit.

#### PROFESSIONAL EXAMINATION FOR DEGREE OF MASTER OF SURGERY.

- XXIII. 1. Subject to the conditions hereinafter specified the Degree of Master of Surgery may be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Glasgow, and is of the age of twenty-four years or upwards, and has produced a certificate showing that, after having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attending the Surgical Wards of an Hospital or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval, Military, or Colonial Medical Services, or has been engaged for at least two years in Practice other than Practice restricted to Medicine.
2. Each candidate for the Degree of Master of Surgery shall be required to pass an examination in the following subjects: Surgical Anatomy, Operations upon the dead body, and Clinical Surgery or such special department of Surgery professed by the candidate as the Senatus, on the recommendation of the Faculty of Medicine, may approve; and he may be admitted to the examination at such time, not sooner than one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery, as the Senatus may appoint for the purpose.<sup>1</sup>
3. Each candidate for the Degree of Master of Surgery shall submit for the approval of the Faculty of Medicine a Thesis on any branch of knowledge, comprised in the several divisions of the Examination for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of special study, excepting a subject that is exclusively medical; and the Thesis, accompanied by a declaration signed by the candidate that the work has been done and the Thesis composed by himself, shall be lodged with the Dean of the Faculty of

<sup>1</sup> For entry and examination arrangements, see p. 369.

Medicine<sup>1</sup> on or before a date to be fixed by the Senatus.<sup>2</sup> The Faculty may, if it sees fit, before approving the Thesis, require the candidate to present himself for oral or other examination on the subject-matter thereof. If the Thesis is, in the judgment of the Faculty, of special merit, the Senatus may, on the recommendation of the Faculty, exempt the candidate from the whole or part of the examination prescribed in sub-section 2 of this Section.<sup>3</sup>

4. A Bachelor of Medicine and Bachelor of Surgery who produces to the Senatus satisfactory evidence of his intention of entering within twelve months after obtaining such Degrees on the practice of his profession in a British Possession or Colony, or in a Foreign Country, may, under such conditions as the Senatus may from time to time prescribe, be admitted to the examination in the subjects specified in sub-section 2 of this Section, at such time after he has received such Degrees as the Senatus may appoint for the purpose: Provided always that in special circumstances the Senatus may, if it sees fit, on the recommendation of the Faculty of Medicine, exempt him from the whole or part of the examination; but the Degree of Master of Surgery shall not be conferred on him unless he shall produce a certificate showing that, after having received the degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attending the Surgical Wards of an Hospital or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval, Military, or Colonial Medical Services, or for at least two years in Practice other than Practice restricted to Medicine, and unless his Thesis in the judgment of the Faculty of Medicine is of special merit.

#### FEES.

XXIV. The fee to be paid to the University of Glasgow for the Degrees of Bachelor of Medicine and Bachelor of Surgery shall be twenty-two guineas, and the proportion of this sum to be paid by a candidate at each division of the Examination shall be regulated from time to time by the University Court. The fee to be paid for the Degree of Doctor of Medicine shall be fifteen guineas. The fee to be paid for the Degree of Master of Surgery shall be fifteen guineas. The fee to be paid for a Diploma in a Special Branch of Medical or Surgical Practice shall be determined from time to time by the University Court. A candidate for any Degree in Medicine or Surgery, or for any Diploma, who has failed to pass any examination, or whose Thesis has not been approved, may, before re-admission to the examination or before again submitting a Thesis for approval, be required to pay such additional fee as the University Court may determine.

#### EXAMINERS.

XXV. The Examiners for graduation in Medicine in the University

<sup>1</sup> At the Registrar's Office.

<sup>2</sup> For entry and examination arrangements, see p. 369.

<sup>3</sup> Candidates whose Theses have been awarded "Honours" will be exempted from the examination.

shall be the Professors constituting the Faculty of Medicine, together with such Lecturers in the University and such additional Examiners, to be appointed by the University Court, as the University Court shall deem necessary: Provided always that the Court shall make such provision as will ensure that every candidate shall be examined in each subject by at least two Examiners, of whom one shall be an additional Examiner appointed by the University Court. The examinations shall be conducted under Regulations made from time to time by the Senatus, with the approval of the University Court.

PROFESSOR OF NATURAL PHILOSOPHY TO BE A PROFESSOR IN THE  
FACULTY OF MEDICINE.

XXVI. Immediately after the words "Faculty of Medicine" in Ordinance No. 31, Section 1, sub-section 5, shall be inserted the words, "The Professor of Natural Philosophy."

DATE OF COMING INTO OPERATION.

XXVII. Every student who began his course of Medical study before the date when this Ordinance comes into operation shall be entitled to graduate under the system in force before or after that date, according as he shall comply with the Regulations in force in the University before or after that date.

XXVIII. From and after the date at which this Ordinance comes into operation Ordinances numbered 14, 54, 156 of the Commissioners under the Universities (Scotland) Act, 1889, are hereby revoked as regards the University of Glasgow, and any reference made in existing Ordinances applicable to the University of Glasgow to the Ordinances so revoked shall be deemed to refer to this Ordinance.

XXIX. The provisions of this Ordinance shall come into operation at the beginning of the academical year next after the approval thereof by His Majesty in Council.

[Approved, 25th May, 1911.]

DEGREES OF M.D. and Ch.M.

Regulations extracted from Ordinance No. 14, Glasgow No. 1, for the information and guidance of those who obtained the degrees of M.B. and Ch.B., or M.B. and C.M., under the rules in force previous to the date of the New Medical Ordinance (1st October, 1911).

PROFESSIONAL EXAMINATION FOR THE DEGREE OF DOCTOR OF MEDICINE.

XXI. 1. Subject to the conditions hereinafter specified, the Degree of Doctor of Medicine shall be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Glasgow, and is of the age of twenty-four years or upwards, and has produced a certificate of having been engaged subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery for at least one year in attendance in the Medical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is

conducted in the Research Laboratories of the University, or in the Military or Naval Medical Services, or for at least two years in Practice other than Practice restricted to Surgery.

2. Each candidate for the Degree of Doctor of Medicine shall be required to pass an examination in Clinical Medicine and in such of its special departments as the Senatus, with the approval of the University Court, by Regulations framed from time to time, shall determine; and he may present himself for examination in Clinical Medicine at any period of examination subsequent to one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery.

Under this sub-section the following regulations have been framed by the Senatus, and approved by the University Court:—

The Examination in Clinical Medicine for the Degree of Doctor of Medicine shall for each candidate consist of a written Report and Commentary, with any oral questions that may be considered desirable, upon at least three Medical cases. In the selection of the cases, special regard shall be given to the opportunities they afford for testing the candidate, not only in the ordinary methods of clinical investigation, but also in the more advanced methods requiring practical knowledge in the applications of the ophthalmoscope and laryngoscope, in the chemical and microscopical examination of excreta, the quantitative determination and microscopic characters of the chief constituents of blood possessing clinical importance, the recording by instruments of the condition of the circulation, the applications of electricity, etc.

Provided always that one of the cases on which a candidate is examined may, if the candidate on entering his name for the Examination declare a wish to that effect, be from one of the following departments, namely, Diseases of Women, Diseases of Children, Mental Diseases, Zymotic Diseases, Diseases of the Eye, Diseases of the Throat, Diseases of the Ear, Diseases of the Skin. Should the candidate specialise in one of these departments he will be expected to show high proficiency in it.

The Clinical Examinations for M.D. will be held twice in each Session. The dates of the next examinations are—21st and 23rd September, 1918; 22nd and 24th March, 1919. All Theses for the degree must be lodged with the Registrar, The University, on or before 1st May in each year.<sup>1</sup> Candidates are required to enter their names for the Clinical Examinations early in September<sup>2</sup> for the Autumn, and early in February<sup>3</sup> for the Spring Examination. [*For entry forms apply to the Registrar. All Theses to be bound in stiff boards.*]

3. Each candidate for the Degree of Doctor of Medicine shall submit for the approval of the Faculty of Medicine a Thesis on any branch of knowledge comprised in the second, third, or fourth

<sup>1</sup> In 1919, from 25th April till 1st May.

<sup>2</sup> In 1918, from 30th August till 2nd September.

<sup>3</sup> In 1919, from 10th till 14th February.

examinations for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of study after having received those Degrees, excepting subjects which are exclusively Surgical; and the Thesis, accompanied by a declaration signed by the candidate, that the work has been done and the Thesis composed by himself,<sup>1</sup> shall be lodged with the Dean of the Faculty of Medicine (at the Registrar's Office) on or before a date to be fixed by the Senatus (1st May).<sup>2</sup>

4. A Bachelor of Medicine and Bachelor of Surgery, who produces to the Senatus satisfactory evidence of his intention of entering within twelve months after obtaining such degrees on the practice of his profession in a British Possession or Colony, or in a foreign Country, may, under Regulations to be framed by the Senatus, be admitted to the examination in Clinical Medicine at any period of examination after he has received such degrees; but the Degree of Doctor of Medicine shall not be conferred on him unless he shall produce a certificate that, subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attendance in the Medical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval or Military Medical Services, or for at least two years in Practice which has not been exclusively surgical, and unless his Thesis in the judgment of the Faculty of Medicine is of exceptional merit.

*Bachelors of Medicine and Masters of Surgery of the University of Glasgow, who have graduated under the regulations in force before the fifth day of August, 1892, may proceed to the Degree of Doctor of Medicine under the provisions of this section, in the same manner as if they held the Degree of Bachelor of Surgery.*<sup>3</sup>

#### PROFESSIONAL EXAMINATION FOR DEGREE OF MASTER OF SURGERY.

- XXII. 1. Subject to the conditions hereinafter specified the Degree of Master of Surgery shall be conferred on any candidate who has obtained the Degrees of Bachelor of Medicine and Bachelor of Surgery of the University of Glasgow, and is of the age of twenty-four years or upwards, and has produced a certificate of

<sup>1</sup> The Faculty of Medicine give notice that no Thesis will be approved unless it gives evidence of original observation, or, if it deal with the researches of others, gives a full statement of the literature of the question, with accurate references and critical investigation of the views or facts cited: mere compilations will in no case be accepted.

The Senate, on 3rd June, 1909, resolved as follows:—In future a Thesis to be eligible as a Thesis for the Degree of M.D. shall be a dissertation written for the purpose, provided that the results of original observations already published in medical or scientific journals or in the transactions of learned societies or otherwise may be accepted in place of such a dissertation; as heretofore, the Thesis as submitted shall become the property of the University, and shall be deposited in the University Library.

*All Theses, whether accepted as sufficient or not, shall become the property of the University.*

<sup>2</sup> In 1919, from 25th April till 1st May. For entry forms apply to the Registrar.

<sup>3</sup> Taken from Ordinance No. 54, Section VI., which was issued by the Universities Commissioners on 18th July, 1894, and came into operation on 11th May, 1895, having on that date been approved by Her Majesty in Council.

having been engaged, subsequently to his having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, for at least one year in attendance in the Surgical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Military or Naval Medical Services, or for at least two years in practice other than practice restricted to Medicine.

2. Each candidate for the Degree of Master of Surgery shall be required to pass an examination in the following subjects:—Surgical Anatomy, Operations upon the dead body, and Clinical Surgery, and in such of the special departments of Clinical Surgery as the Senatus, with the approval of the University Court, by Regulations framed from time to time, may determine; and he may present himself for examination in these subjects at any period of examination subsequent to one year after he has received the Degrees of Bachelor of Medicine and Bachelor of Surgery.

Under this sub-section the following regulations have been framed by the Senatus, and approved by the University Court:—The Examination in Clinical Surgery for the Degree of Master of Surgery shall for each candidate consist of a written Report and Commentary, with any oral questions that may be considered desirable on at least three Surgical cases.

Provided that one of the three Surgical cases on which a candidate is examined shall, if the candidate on entering his name for the Examination declare a wish to that effect, be from one of the following departments, namely, Surgical Diseases of Women, Diseases of the Throat, Diseases of the Eye, Diseases of the Ear. Should the candidate specialise in one of these departments he will be expected to show high proficiency in it.

The examinations for Ch.M. will be held twice in each Session. The dates of the next examinations are—21st and 23rd September, 1918; 22nd and 24th March, 1919. All Theses for the Degree must be lodged with the Registrar, The University, on or before 1st May in each year.<sup>1</sup> Candidates are required to enter their names for the Clinical Examinations early in September<sup>2</sup> for the Autumn, and early in February<sup>3</sup> for the Spring, Examination. [*For entry forms apply to the Registrar. All Theses to be bound in stiff boards.*]

3. Each candidate for the Degree of Master of Surgery shall submit for the approval of the Faculty of Medicine a Thesis on any branch of knowledge comprised in the second, third, or fourth Examinations for the Degrees of Bachelor of Medicine and Bachelor of Surgery, which he may have made a subject of study after having received those Degrees, excepting subjects that are exclusively medical; and the Thesis, accompanied by a declaration signed by the candidate that the work has been done and the Thesis composed by himself,<sup>4</sup> shall be lodged with the Dean

<sup>1</sup> In 1919, from 25th April till 1st May.

<sup>2</sup> In 1918, from 30th August till 2nd September.

<sup>3</sup> In 1919, from 10th till 14th February.

<sup>4</sup> See footnote 1 on page 368.

of the Faculty of Medicine (at the Registrar's Office) on or before a date to be fixed by the Senatus (1st May).

4. A Bachelor of Medicine and Bachelor of Surgery who produces to the Senatus satisfactory evidence of his intention of entering, within twelve months after obtaining such degrees, on the practice of his profession in a British Possession or Colony, or in a foreign Country, may, under Regulations to be framed by the Senatus, be admitted to examination in the subjects specified in Sub-section 2 of this section, at any period of examination after he has received such degrees; but the Degree of Master of Surgery shall not be conferred on him unless he shall produce a certificate that, subsequently to having received the Degrees of Bachelor of Medicine and Bachelor of Surgery, he has been engaged for at least one year in attendance in the Surgical Wards of an Hospital, or in scientific work bearing directly on his profession, such as is conducted in the Research Laboratories of the University, or in the Naval or Military Medical Services, or for at least two years in Practice which has not been exclusively medical, and unless his Thesis, in the judgment of the Faculty of Medicine, is of exceptional merit.

#### FEES.

The fee to be paid for the Degree of Doctor of Medicine shall be ten guineas, exclusive of any stamp duty which for the time may be exigible. The fee to be paid for the Degree of Master of Surgery shall be ten guineas.

#### DISTINCTIONS ATTAINABLE BY STUDENTS AND GRADUATES OF MEDICINE.

Candidates who have shown special merit in any subject or subjects at any of the Professional Examinations will be announced as having passed in such subject or subjects "with distinction."

Candidates who have shown special merit as indicated by the aggregate results of the four Professional Examinations will be announced, at the time of Graduation, as having obtained Commendation or Honours, according to the degree of excellence.<sup>1</sup>

In connection with the Higher Degrees in Medicine and Surgery three grades of distinction are also awarded, viz., Commendation, High Commendation, and Honours. The Bellahouston Trustees have put it in the power of the University to award three Gold Medals yearly to those who, having gained Honours, are pronounced by the Senate on the report of the Faculty of Medicine worthy of this highest distinction for the excellence of their Theses.

For Straits Settlements Gold Medal, see under Prizes.

Graduates in Medicine or Surgery to whom Honours are awarded for their Theses are requested to publish these Theses in Journals or otherwise, and to supply copies to the University for exchange with other Universities.

<sup>1</sup> A Candidate exempted from a subject or subjects of the First Professional on account of having passed an accepted examination or examinations is credited with not more than pass marks.

## GRADUATION.

Candidates proceeding to graduation, if not already Members of the General Council of the University, are required by the Act 44 and 45 Vict., ch. 40, to pay to the Registrar of the General Council the Registration Fee, and furnish to him the particulars required for their enrolment in the General Council.

In accordance with the Promissory Oaths Act, 1868, a Declaration in the following English form is now substituted for the Latin Oath<sup>1</sup> formerly required to be taken and subscribed by every candidate on graduation :—

I do solemnly and sincerely declare, that, as a Graduate in Medicine of the University of Glasgow, I will exercise the several parts of my profession, to the best of my knowledge and abilities, for the good, safety, and welfare of all persons committing themselves, or committed to my care and direction; and that I will not knowingly or intentionally do anything or administer anything to them to their hurt or prejudice, for any consideration, or from any motive whatever. And I further declare, that I will keep silence as to anything I have seen or heard while visiting the sick which it would be improper to divulge.

And I make this solemn declaration in virtue of the Provisions of the Promissory Oaths Act, 1868, substituting a Declaration for Oaths in certain cases.

## REGISTRATION OF MEDICAL PRACTITIONERS.

Graduates should register as soon as possible with the Branch Registrar for Scotland, at 54 George Square, Edinburgh. Fee £5 2s. Additional qualifications, £1 each.

## 6.—GRADUATION IN LAW.

Two Degrees in Law are conferred, after examination, by the University of Glasgow, viz., Bachelor of Laws (LL.B.) and Bachelor of Law (B.L.).

By regulation of the Faculty of Advocates, any one who has obtained the Degree of LL.B. from a Scottish University is held qualified in General Scholarship and Law with a view to admission to the Bar, without examination or other evidence of such qualification, except as stated on page 172.

By the Law Agents Act, 36 and 37 Vict., c. 63, the holder of a degree in Law or in Arts of a University in Great Britain or Ireland, granted after examination, is qualified to apply for admission as a Law Agent after an apprenticeship of three years, instead

<sup>1</sup> *The Oath was in these words:—*Testor Deum omnipotentem me hoc Iusjurandum pro virili servaturum; Victus rationem agris commodam et salutarem præscripturum; nullius intercessione nec sponte noxium pharmacum cuiquam propinaturum; sed sancto et caste vitam artemque mean instituturum; In quascunque domos intravero ad ægrotantium duntaxat salutem ingressurum et ab omni injuria inferenda procul futurum; Quæcunque inter curandum videro audiverove aliquid ea offerre non expediat silentio suppressurum.

of five, as required in the ordinary case ; and by Act of Sederunt of 20th July, 1878, any applicant who holds the Degree of LL.B. or of B.L. of any Scottish University is exempted from any examination in Law before the Examiners of Law Agents, excepting only on forms of Process, Civil and Criminal, and a similar provision is contained in the Act of Sederunt of 18th March, 1893. (See also page 173.)

#### Degree of LL.B.

The following are the provisions of Ordinance No. 39, General No. 11, which, having been approved by Her Majesty in Council on 28th May, 1894, applies to all students who, after 30th September, 1894,<sup>1</sup> began their course of study with a view to graduation in Law :—

I. No one shall be admitted to examination as a candidate for the Degree of Bachelor of Laws (LL.B.) unless he be a graduate in Arts of one of the Universities of the United Kingdom ; or of any Foreign or Colonial University specially recognised for the purpose by the University Court.

II. The course of study in Law for the Degree of Bachelor of Laws shall include the following subjects :—

- (1) Jurisprudence, General or Comparative, during a course of not less than forty lectures.
- (2) The Law of Nations or Public International Law, during a course of not less than forty lectures.
- (3) Civil Law during a course of not less than eighty lectures.
- (4) Law of Scotland, or Law of England, during a course of not less than eighty lectures.
- (5) Constitutional Law and History, during a course of not less than eighty lectures.
- (6) Conveyancing, during a course of not less than eighty lectures ; or Political Economy, or Mercantile Law, during a course of not less than eighty lectures.
- (7) Any two of the following subjects, namely :—International Private Law, Political Economy, Administrative Law, [Evidence and Procedure<sup>2</sup>], and Forensic Medicine ; in each case during a course of not less than forty lectures [or such other subject included in the Department of History and Law, or in the Faculty of Law as the Senatus, with the approval of the University Court, may from time to time determine<sup>2</sup>].

III. (1) The course of study necessary for the Degree of Bachelor of Laws shall extend over three academical years, one of which at least must be spent in the University in which the candidate intends to graduate, the other two may have been spent in any other University or School of Law specially recognised by the University Court.

<sup>1</sup>Students who began their course previous to 1894 may qualify themselves for graduation in Law under the old regulations, which are given at pp. 227-229 in the *University Calendar* for 1900-1901 and in the *Calendars* for preceding sessions.

<sup>2</sup>See Section XI. of New Law Ordinance, p. 378. Mercantile Law has been approved.

(2) No candidate for a degree shall be deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

IV. Candidates must undergo examination in the subjects prescribed in Section II. hereof; and they must pass at one examination in at least two of those subjects. Before presenting themselves in any subject the candidates must have attended the requisite course of instruction in such subject. Candidates who have passed an examination for another degree in any of the said prescribed subjects in the same University may be exempted from examination in such subject or subjects, provided that the Examiners are satisfied that the previous examination in such subject or subjects has been passed on a sufficiently high standard.

V. Every candidate for the Degree of Bachelor of Laws shall be examined both orally and in writing on each of the subjects in the course of study above prescribed in which he presents himself for examination.

VI. (1) Distinction may be awarded to candidates who have displayed exceptional merit in their examinations.

(2) For the Degree of Bachelor of Laws a diploma shall be given, setting forth the subjects in which the candidate has passed, and the distinction (if any) he has attained.

VII. The Examiners shall be the Professors of or Lecturers on the subjects included in the said examinations, and additional Examiners appointed by the University Court. The mode of conducting the examination shall be fixed from time to time by the *Senatus Academicus*.

VIII. Every student who at the time when this ordinance shall come into operation shall have completed a part of his course with a view to graduation as Bachelor of Laws in any Scottish University, under regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Bachelor of Laws without complying with the provisions of this ordinance.

IX. Ordinance numbered 75 of the Commissioners under the Universities (Scotland) Act, 1858, is hereby repealed, in so far as it is inconsistent with this ordinance.

X. This ordinance shall come into force at the beginning of the first academical year after the date on which it is approved by Her Majesty in Council. [Approved on 28th May, 1894.]

#### Degree of B.L.

The following are the provisions of Ordinance No. 40, General No. 12, which, having been approved by Her Majesty in Council on 28th May, 1894, applies to all students who, after 30th September, 1894, began their course of study with a view to graduation in Law.<sup>1</sup>

I. No one shall be admitted to examination as a candidate for the Degree of Bachelor of Law (B.L.) unless he be a graduate in Arts of one

<sup>1</sup> But see Section X. of New Law Ordinance, p. 378.

of the Universities of the United Kingdom, or of any Foreign or Colonial University specially recognised for the purpose by the University Court; or until he shall have passed—

A. The Preliminary Examination in the Faculty of Arts, or its equivalent, as specified in the Arts Ordinance (Regulations for Degrees in Arts); and

B. An Examination in one of the Scottish Universities, to be conducted by the Examiner in Arts, in the following subjects, on the standard of examination for the Ordinary Degree of Master of Arts:—

(1) Logic and Psychology; or, in the option of the candidate, Moral Philosophy.

(2) Latin.

(3) One additional Arts subject, not being one of those which belong also to the Faculty of Law.

And he must have studied at least one of these subjects in a full course in a Scottish University, or an equivalent course in another University approved by the University Court.

II. The course of study in Law necessary for the Degree of Bachelor of Law shall include the following subjects:—

1. Civil Law, during a course of not less than eighty lectures;<sup>1</sup> or a half course in Civil Law where in any University a full course is not available: Provided that in the latter case, candidates who are not already graduates in Arts shall be required to take in addition a course in such subject in Arts as may be sanctioned by the Senatus Academicus, or a half course in one or other of the following branches of Law:—

(a) Jurisprudence, General or Comparative.

(b) The Law of Nations, or Public International Law.

(c) Constitutional Law and History.

(d) International Private Law.

(e) Mercantile Law.

(f) Administrative Law.

2. Law of Scotland, during a course of not less than eighty lectures.

3. Conveyancing, during a course of not less than eighty lectures.

4. Forensic Medicine, during a course of not less than forty meetings of the class; or, in the option of the candidate, a half course in one of the branches of Law specified in Sub-section 1 of this section if not already taken.

III. (1) The course of study in Law necessary for the Degree of Bachelor of Law shall extend over two academical years.

(2) No candidate for a degree shall be deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

(3) The candidate may prosecute his studies during the prescribed two years in one Scottish University, or in different Scottish Universities, or in a Scottish University and a University or School of Law specially

<sup>1</sup> The remainder of this sub-section does not apply to the University of Glasgow which provides a full course in Civil Law.

recognised by the University Court; but one at least of these years must have been spent, and all the examinations in the subjects mentioned in the preceding section must have been passed at the University in which he intends to graduate.

IV. The candidate for the Degree of Bachelor of Law must undergo examination and pass in the four or more subjects selected by him; but he may present himself for examination in one subject or group of subjects at a time, provided that he has completed the course of study for such subject or group of subjects, and provided also that in that case a higher standard of proficiency shall be exacted.

V. Every candidate for the Degree of Bachelor of Law shall be examined, both orally and in writing, on each of the subjects in the course of study above prescribed, in which he presents himself for examination.

VI. (1) Distinction may be awarded to candidates who have displayed exceptional merit in their examinations.

(2) For the Degree of Bachelor of Law a diploma shall be given, setting forth the subjects in which the candidate has passed, and the distinction (if any) he has attained.

VII. The Examiners shall be the Professors of and Lecturers on the subjects included in the said examinations, and additional Examiners appointed by the University Court. The mode of conducting the examinations shall be fixed from time to time by the Senatus Academicus.

VIII. Every student who at the time when this ordinance shall come into operation shall have completed a part of his course with a view to graduation as a Bachelor of Law in any Scottish University under regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Bachelor of Law without complying with the provisions of this ordinance.

IX. Ordinance numbered 75 of the Commissioners under the Universities (Scotland) Act, 1858, is hereby repealed, in so far as it is inconsistent with this ordinance.

X. This ordinance shall come into force at the beginning of the first academical year after the date on which it is approved by Her Majesty in Council. [Approved on 28th May, 1894.]

#### NEW LAW ORDINANCE.

University Court Ordinance No. XXXVII., General No. 2, which was approved by His Majesty in Council on 24th October, 1911, and came into operation on 23rd April, 1912, is as follows:

Whereas by Section 21 of the Universities (Scotland) Act, 1889, it is enacted that, after the expiration of the powers of the Commissioners under the said Act, the University Court of each University shall have power to make such Ordinances as they think fit, with the approval of His Majesty in Council, *inter alia* altering or revoking any of the Ordinances affecting such University which had been or might be framed and passed under the Universities (Scotland) Act, 1858, or the said recited Act itself, and making new Ordinances:

And whereas the powers conferred on the said Commissioners have expired:—

And whereas the University Courts of the Universities of St. Andrews, Glasgow, Aberdeen, and Edinburgh have severally resolved that it is expedient to alter the Regulations for the Degrees of Bachelor of Law (B.L.) and Bachelor of Laws (LL.B.) in the said Universities; and to amend Ordinance No. 39 [General, No. 11.—Regulations for the Degree of Bachelor of Laws (LL.B.)] of the said Commissioners, and to revoke Ordinance No. 40 [General, No. 12.—Regulations for the Degree of Bachelor of Law (B.L.)] of the said Commissioners, which Ordinances received the approval of Her late Majesty in Council on the 28th day of May 1894:

Therefore the said University Courts hereby statute and ordain as follows:—

I. Subject to the provision contained in Section II. hereof, each student before entering on his curriculum of study shall have passed—Latin being one of the subjects—

(a) The Preliminary Examination in the Faculty of Arts; and the conditions with respect thereto shall be applicable in all respects except as follows, viz., Latin shall be passed on the higher standard; or

(b) Such other Examination as the Joint Board of Examiners may from time to time accept as equivalent to the said Preliminary Examination in Arts in which Latin has been passed on the higher standard, provided always that the Joint Board of Examiners shall have power to require, as a condition of such acceptance, that the said Examination shall be passed on a higher standard than the ordinary pass standard thereof.

II. If a student, before passing the Preliminary Examination, has attended a class qualifying for graduation, the Senatus may, on special cause shown, permit him to count such class as qualifying for graduation, on condition of his passing the full Preliminary Examination within such time thereafter as the Senatus may appoint; and in every such case the Senatus shall make a report to the University Court setting forth the reasons for the relaxation.

III. A degree in Arts or Science or Economics (not being a degree *honoris causâ tantum*) in any of the Universities in the United Kingdom, or of any Colonial or Foreign University specially recognised for the purpose by the University Court after consultation with the Senatus, shall exempt from the Preliminary Examination.

IV. The curriculum of study in Law necessary for the degree of Bachelor of Law (B.L.), shall include the following subjects:—

1. Civil Law, during a course of not less than eighty lectures.
2. Law of Scotland, during a course of not less than eighty lectures.
3. Conveyancing, or Constitutional Law and (Constitutional) History, or Mercantile Law, during a course of not less than eighty lectures.
4. Jurisprudence, or Forensic Medicine, during a course of not less than forty lectures.

5. Constitutional Law and (Constitutional) History, or Mercantile Law, if not already taken, or Political Economy, during a course of not less than eighty lectures, or any two of the following subjects, each during a course of not less than forty lectures: Jurisprudence, or Forensic Medicine, if not already taken, Public International Law, International Private Law, Evidence and Procedure, or such other subject included in the Department of History and Law or in the Faculty of Law as the Senatus, with the approval of the University Court, may from time to time determine.

V.—(1) The curriculum of study in Law necessary for the degree of Bachelor of Law (B.L.), shall extend over three academical years, and in each academical year a candidate shall attend at least one course of eighty lectures, or two courses of forty lectures each.

(2) No candidate for the degree shall be deemed to have attended a class as part of the course of study necessary for that degree who does not present a certificate bearing not only that he has given regular attendance, but also that he has duly performed the work of the class.

(3) The candidate may prosecute his studies during the prescribed three years in one Scottish University, or in different Scottish Universities, or in a Scottish University and a University or School of Law specially recognised by the University Court; but two at least of these years must have been spent, and all the examinations in the subjects mentioned in the preceding section must have been passed at the University in which he intends to graduate; provided also, that where in any University or School of Law attended by the candidate a full course of eighty lectures in Civil Law is not available, and the candidate shall have there attended a shorter course in Civil Law, then he shall be required to take, in addition to the five subjects prescribed in Section IV. hereof, a course of not less than forty lectures in an additional subject in the Department of History and Law or in the Faculty of Law.

VI. A candidate for the Degree of Bachelor of Law (B.L.) must undergo examination and pass in the whole subjects hereinbefore prescribed; and he may present himself for examination in all or any two of the subjects in which he has completed his course of study, and he must pass at one examination in at least two of these subjects, unless he shall previously have passed in all but one of the subjects hereinbefore prescribed, in which case he may present himself for examination and may pass in that one subject.

VII. Every candidate for the degree of Bachelor of Law (B.L.) shall be examined both orally and in writing on each of the subjects which he professes. The standard of examination in the subjects common to the degrees of Bachelor of Laws (LL.B.) and Bachelor of Law (B.L.) shall be the same.

VIII.—(1) Distinction may be awarded to candidates who have displayed exceptional merit in their examinations.

(2) For the degree of Bachelor of Law (B.L.) a diploma shall be given, setting forth the subjects in which the candidate has passed and the distinction (if any) he has attained.

IX. The Examiners shall be the Professors of and Lecturers on the subjects included in the said examinations, and additional Examiners appointed by the University Court. The mode of conducting the examination shall be fixed from time to time by the Senatus Academicus.

X. Every student who, at the time when this Ordinance shall come into operation, shall have completed a part of his course with a view to graduation as a Bachelor of Law in any Scottish University under Regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such Regulations, may become a candidate for the degree of Bachelor of Law, without complying with the provisions of this Ordinance; or he may complete his course of study and become a candidate for said degree in accordance with the provisions of this Ordinance: Provided always that in the latter case he shall not be deemed to be disqualified if he shall have passed the Preliminary Examination prescribed in Section I. hereof after entering on his curriculum of study.

XI. Section II. sub-section (7) of Ordinance No. 39—General No. 11—of the Universities Commissioners—prescribing regulations for the Degree of Bachelor of Laws (LL.B.)—shall be read as if the words "Evidence and Procedure" were inserted after the words "Administrative Law," and as if at the end of the said sub-section there were added the words "or such other subject included in the Department of History and Law or in the Faculty of Law as the Senatus, with the approval of the University Court, may from time to time determine."

XII. This Ordinance shall come into force at the beginning of the first academic year or first Summer Session, whichever be the earlier, after the date on which it is approved by His Majesty in Council; and, subject as aforesaid, the provisions of the Ordinance of the said Commissioners, No. 40 [General No. 12—Regulations for the Degree of Bachelor of Law (B.L.)] are hereby revoked.

[Approved, 24th October, 1911.]

## SUBJECTS OF EXAMINATION.

The examinations for LL.B. and B.L. in session 1918-19 will embrace the following books and subjects, viz. :—

*In Civil Law.*—Institutes of Justinian (Ed. Moyle or Sandars) and the Class Lectures; also Dig., Lib. XVIII., Tit. I.—translated and annotated by Mackintosh in his 'Roman Law of Sale.'

*In the Law of Scotland.*—In addition to the Class Lectures, the books recommended are Bell's Principles of the Law of Scotland, and Erskine's Principles of the Law of Scotland. In Criminal Law, Macdonald's Criminal Law and Erskine's Principles, 21st edition.

*In Conveyancing.*—Menzies, *Lectures on Conveyancing*, and the Class Lectures.

*In Mercantile Law.*—In addition to the Class Lectures, the books recommended are Goudy on Bankruptcy ; Carver on Carriage by Sea ; Hamilton on Bills of Exchange ; Palmer's Company Law ; Bell's Principles, 10th edition, Books I. II. pt. 2, and V. ; Chalmers on Marine Insurance.

*In Jurisprudence, General or Comparative.*—The Class Lectures ; Holland's Jurisprudence ; Maine's Ancient Law.

*In the Law of Nations, or Public International Law.*—In addition to the Class Lectures the books recommended are Hall's *International Law* (5th ed.), or F. E. Smith's *International Law*, 4th ed., by J. Wylie, and the texts of the Hague Convention and of the Declaration of London which will be found in the latter work or in Pearce Higgins' *The Hague Conferences and other International Documents*, or in Whittuck's *International Documents*. Candidates are expected to show a general acquaintance with the history of Modern Europe. The cases referred to in the lectures should be studied in the collections by Pitt Cobbett or Scott or Bentwich or Evans.

NOTE.—Candidates under the old regulations for LL.B. are required to sit also at the papers on Jurisprudence and International Private Law.

*In International Private Law.*—In addition to the Class Lectures and the Scots cases therein mentioned Rattigan's *Private International Law*. For reference Nelson's *Leading Cases*, Lorenzen's *Cases on Conflict of Laws*, Dicey's *Conflict of Laws* (2nd ed.), Westlake's *Private International Law* (5th ed.), and Duncan and Dykes' *Principles of Civil Jurisdiction*, will be found useful.

*In Constitutional Law and History.*—(1) The Outlines of English Constitutional History ; (2) Existing Constitutional Law. In addition to the Class Lectures the books recommended are—Taswell-Langmead's *English Constitutional History* ; Dicey's *Law of the Constitution*.

*In Forensic Medicine*—Signs of Death with relation to Crime ; Proximate Causes of Death ; Medico-legal Forms of Death ; Identity ; Survivorship ; Wounds ; Blood-stains and their Detection ; Insurance ; Sexual Crimes :—Rape and Criminal Abortion ; Pregnancy in its Medico-legal aspects ; Infanticide and Concealment of Pregnancy ; Divorce in its Medico-legal relations ; Legitimacy and Paternity ; Evidence of Poisoning ; Alcoholism in its Medico-legal aspects ; Insanity.

*In Evidence and Procedure.*—In addition to the Class Lectures, Maclaren's *Court of Session Practice* ; Lewis' *Sheriff Court Practice* ; Macdonald's *Criminal Law of Scotland* ; *The Parliament House Book*, Parts A. and B. ; Dickson on *Evidence*.

*In Political Economy and other Arts Subjects.*—The subjects of examination for the Degree of M.A.

TABLE OF EXAMINATIONS FOR DEGREES IN LAW TO BE HELD DURING SESSION 1918-19.

Fee. <sup>1</sup>	Names to be given in and Fees paid to the Registrar, The University. Date. <sup>2</sup>	Subjects of Examination.	DATES OF WRITTEN EXAMINATIONS AND HOURS AT WHICH THE DIFFERENT PAPERS WILL BE SET.	
			OCTOBER, 1918.	MARCH AND JUNE, 1919.
£1 Is. on entry for each subject, and balance, if any, before Graduation. Total Fees— L.L.B. £6 6s., B.L., £5 6s.	From 10th to 27th August, 1918, both days inclusive, or From 24th February to 28th Feb., 1919, both days inclusive.	Political Economy, -	Tues., 1st Oct., 2-5 p.m.	Mon., 9th June, 2-5 p.m.
		Constitutional Law, -	Mon., 30th Sept., 9-12 noon.	Sat., 22nd March, 9-12 noon.
		Civil Law, -	" " 2-5 p.m.	" " 2-5 p.m.
		Scots Law, -	Wed., 2nd Oct., 9-12 noon.	Mon., 24th " 9-12 noon.
		Public Internat. Law, -	" " 2-5 p.m.	" " 2-5 p.m.
		Jurisprudence, -	Thurs., 3rd " 9-12 noon.	Tues., 25th " 9-12 noon.
		Internat. Private Law, -	" " 2-5 p.m.	" " 2-5 p.m.
		Conveyancing, -	Fri., 4th " 9-12 noon.	Wed., 26th " 9-12 noon.
		Mercantile Law, -	" " 2-5 p.m.	" " 2-5 p.m.
		Forensic Medicine, -	Sat., 5th " 9-11 a.m.	Thurs., 27th " 9-11 a.m.
		Evidence and Procedure, -	" " 2-5 p.m.	" " 2-5 p.m.

For Dates of the Preliminary Examinations see p. 245.

<sup>1</sup> Under the old regulations the fee for L.L.B. is £5 5s.; for B.L., £3 3s.<sup>2</sup> When names are not given in and fees are not paid within the stated dates, a late Entry Fee of Twenty Shillings must be paid before the candidate can be enrolled for examination. A candidate is not held to be enrolled for examination until his name is entered, the fee paid, and all the necessary certificates, etc., lodged. Late Entry Fees will not be accepted less than eight days before the date of Examination.

## 7.—GRADUATION IN DIVINITY.

## Degree of Bachelor of Divinity.

In Ordinance No. 63 the Universities Commission laid down the following regulations for this degree :—

I. No one shall be admitted to examination<sup>1</sup> as a candidate for the Degree of Bachelor of Divinity (B.D.) in any University unless he be (1) a graduate in Arts of that University, and have taken a complete Theological Course in a Scottish University or Universities, or in an institution or institutions specially recognised for the purpose of this ordinance by the University Court, or partly in a Scottish University or Universities and partly in such institution or institutions;<sup>2</sup> or (2) a graduate in Arts of any Scottish University or other University specially recognised as aforesaid, and have completed his Theological Course, of which not less than two years' attendance shall have been given in the University in which he presents himself for examination.

II. The examination shall in all cases be conducted at the seat of the University granting the degree, and the Examiners shall be the Professors of or Lecturers on the subjects included in the examinations, and two additional Examiners appointed by the University Court. The mode of conducting the examination shall be fixed from time to time by the *Senatus Academicus*.<sup>1</sup>

III. Every student who at the time when this ordinance shall come into operation shall have completed a part of his Theological Course with a view to graduation as Bachelor of Divinity in any Scottish University, under regulations hitherto in force in that University, and shall thereafter complete his course of study in conformity with such regulations, may become a candidate for the Degree of Bachelor of Divinity without complying with the provisions of this ordinance.

IV. The Degree of Bachelor of Divinity shall in no case be conferred on persons who have not complied with the conditions hereinbefore set forth, and shall not be conferred *honoris causâ tantum*.

This degree is conferred on such qualified candidates as have satisfied the Examiners of their proficiency in the following departments, viz. :—

I. Hebrew, New Testament Exegesis, and Apologetics.

II. Divinity, Church History, and Biblical Criticism.

The following regulations were adopted by the Senate on 21st March, 1907 :

<sup>1</sup> Ordinance No. 154 gives the *Senatus Academicus* power to admit candidates to examination in not more than three of the subjects, after the completion of the second session of attendance on their Theological course.

<sup>2</sup> The University Court has recognised *pro tanto* every Theological College in the United Kingdom having a distinct staff of teachers for the separate subjects, in so far as the Theological course is subsequent to the Arts course.

1. Candidates who have completed the second year of their Theological studies, subsequent to the termination of their course in Arts, may be admitted to examination in the First Department.

2. Candidates who (a) have passed their examination in the subjects comprised in the First Department, and (b) have completed their Theological Course, may be admitted to examination in the Second Department.

3. Candidates for the First Department shall be examined in the subjects prescribed for the academic year in which the examination takes place.<sup>1</sup>

4. Candidates for the Second Department shall be examined in Spring in the subjects prescribed for the academic year in which the examination takes place; or in Autumn in the subjects prescribed for the academic year immediately preceding.<sup>1</sup>

The scheme of examination will be as follows :

#### FIRST DEPARTMENT.

*In October, 1918, and March, 1919.*

- (a) *Hebrew*.—(1) Deuteronomy, i.—xii.; (2) Jeremiah, xl.—lii.; (3) Psalms, Book ii.; (4) Portions of unpointed Hebrew to be punctuated and translated; (5) Translations from English into Hebrew.
- (b) *New Testament Exegesis*.—(1) Contents and Exegesis of the Gospel of St. Luke; (2) Contents and Exegesis of the First Epistle of St. John and the Epistle to the Ephesians; (3) Questions in Language and Grammar with Translations from English into Greek.

Books which may be consulted :

- (1) Plummer's Commentary on St. Luke in the *International Critical Commentary*; (2) Westcott's Commentary on the Epistle of St. John, or Plummer's Commentary in the *Cambridge Greek Testament for Schools*, and Law's *Texts of Life*; Armitage Robinson's *St. Paul's Epistle to the Ephesians*, or J. O. F. Murray's Commentary in the *Cambridge Greek Testament*; J. H. Moulton's *Introduction to the Study of New Testament Greek* (Kelly, London).
- (c) *Apologetics*.—(1) Philosophy of Religion, including (a) the Psychology of Religion; (b) the History of Religions; (c) Natural Theology.

<sup>1</sup> The academic year begins on 1st October.

(2) Christian Apologetics, including (a) History of Christian Apologetics ; (b) Apologetic of Miracle.

Books which may be consulted :

Under section (1): Galloway's *Philosophy of Religion* ; Lenba's *Psychological Study of Religion* ; Menzies' *History of Religion*, 4th ed. ; Flint's *Theism and Antitheistic Theories* ; Newman Smyth's *Constructive Natural Theology* ; Thomson (J. Arthur), *The Bible of Nature*.

Under section (2): Bruce's *Apologetics* ; Garvie's *Handbook of Christian Apologetics* ; Schultz's *Outlines of Christian Apologetics*. On History of Christian Apologetics : A. S. Farrar's *Critical History of Free Thought in relation to the Christian Religion* (Bampton Lecture, 1862). On Miracle : Davies' *Miracles of Jesus* ; Orr's *Virgin Birth of Christ and Resurrection of Jesus* ; Row's Bampton Lecture (1877) on *Christian Evidence and Modern Thought*.

*In October, 1919, and March, 1920.*

- (a) *Hebrew*.—(1) Deuteronomy, i.—xii. ; (2) Jeremiah, xxii.—xxx. ; (3) Psalms, Books iii. and iv. ; (4) Portions of unpointed Hebrew to be punctuated and translated ; (5) Translations from English into Hebrew.

Books which may be consulted :

(1) and (2) The relative volumes in the I.C.C., Century Bible and Polychrome Bible ; A. W. Streane's *Double Text of Jeremiah* ; S. R. Driver's *Book of the Prophet Jeremiah* ; (3) Commentaries by Briggs, Delitzsch, Perowne, Kirkpatrick (Cambridge Bible), and Cheyne ; the Polychrome Bible ; Driver's *Parallel Psalter* ; F. W. Mozley's *Psalter of the Church* (for the LXX. text) ; (4) and (5) Müller's or Davidson's *Hebrew Syntax* ; Robertson's *Hebrew Exercises*.

- (b) *New Testament Exegesis*.—(1) Contents and Exegesis of the Gospel of St. Mark ; (2) Contents and Exegesis of the Epistle to the Hebrews and the First Epistle of St. Peter ; (3) Questions in Language and Grammar with Translations from English into Greek.

Books which may be consulted :

(1) H. B. Swete's *Commentary on St. Mark*, and A. Menzies' *The Earliest Gospel* ; (2) Westcott's *Commentary on Hebrews*, or Nairne's Volume in the *Cambridge Greek Testament for Schools* ; Hort's *Commentary on 1st Peter* ; Moulton's *Introduction to the Study of New Testament Greek* (Kelly).

TABLE OF EXAMINATIONS FOR THE DEGREE OF B.D. TO BE HELD DURING  
SESSION 1918-19.

Fees.	Names to be given in and Fees paid to the Registrar, The University. Date. <sup>1</sup>	Dates of Written Examinations and Hours at which the different Papers will be set.			
			FIRST DEPARTMENT.		SECOND DEPARTMENT.
The Fee for each Department is £9 12s. 6d.	{ From 23rd Sept. to 30th Sept., 1918, both days inclusive	Wed., 9th Oct., 1918.	Hebrew, - - - - -	-	Divinity, - - 9-12 noon.
		" "	Hebrew, - - - - -	-	Biblical Introduction, 2-5 p.m.
		Thurs., 10th Oct., 1918.	Apologetics, - - - -	-	Church History, - 9-12 noon.
		" "	New Testament Exegesis, -	-	Textual Criticism, 2- 5 p.m.
	{ From 24th Feb. to 28th Feb., 1919, both days inclusive	Wed., 26th Mar., 1919.	Hebrew, - - - - -	-	Divinity, - - 9-12 noon.
		" "	Hebrew, - - - - -	-	Biblical Introduction, 2-5 p.m.
		Thurs., 27th Mar., 1919.	Apologetics, - - - -	-	Church History, - 9-12 noon.
		" "	New Testament Exegesis, -	-	Textual Criticism, 2- 5 p.m.

<sup>1</sup> Forms of application for examination may be obtained at the Registrar's Office. In entering for the Second Department candidates from other schools must produce, in addition to class certificates, evidence that they have completed, or are about to complete, their Theological Course.

- (c) *Apologetics*.—(1) Philosophy of Religion, including (a) the Psychology of Religion; (b) The History of Religions; (c) Natural Theology.

(2) Christian Apologetics, including (a) History of Christian Apologetics; (b) Apologetic of Miracle.

Books which may be consulted :

Under section (1): Galloway's *Philosophy of Religion*; Lenba's *Psychological Study of Religion*; Menzies' *History of Religion*, 4th ed.; Flint's *Theism and Antitheistic Theories*; Newman Smyth's *Constructive Natural Theology*; Thomson (J. Arthur), *The Bible of Nature*.

Under section (2): Bruce's *Apologetics*; Garvie's *Handbook of Christian Apologetics*; Schultz's *Outlines of Christian Apologetics*. On History of Christian Apologetics: A. S. Farrar's *Critical History of Free Thought in relation to the Christian Religion* (Bampton Lecture, 1862). On Miracle: Davies' *Miracles of Jesus*; Orr's *Virgin Birth of Christ and Resurrection of Jesus*; Row's Bampton Lecture (1877) on *Christian Evidence and Modern Thought*.

## SECOND DEPARTMENT.

*In March and October, 1919.*

- (a) *Divinity*.—(1) Doctrine of Revelation, including the Authority and Inspiration of Holy Scripture; (2) Doctrine of God and the Holy Trinity; (3) Theology of John Caird.

Books which may be consulted :

Generally, the text-book of Dr. J. S. Banks, *Manual of Christian Doctrine*, 9th ed., 1904.

Specially, (1) Sanday, Bampton Lecture on *Inspiration*; Ladd, *Doctrine of Sacred Scripture*; Bruce, *Chief End of Revelation*; Orr, *Revelation and Inspiration*. (2) Illingworth, *Doctrine of the Trinity*; Adeney, *Christian Conception of God*. (3) Caird, *Fundamental Ideas of Christianity*.

- (b) *Church History*.—Ecclesiastical History of Europe, from the death of Louis XIV. (1715) to the Accession of George III. (1760).<sup>1</sup>

Books which should be consulted :

Moeller, Mosheim, Kurtz, Neander; Lodge, *The Students' Modern Europe*; Cambridge *Modern History*, Vol. VI.; Grant,

<sup>1</sup> By a mistake the subject for October, 1918, given in last year's *Calendar* was Ecclesiastical History of Europe from 1619 to 1660. An examination paper on this subject will be set in October, 1918, for candidates who profess this period.

*The French Monarchy*, Vol. II. ; Schaff's *Creeds and Confessions* ; Ranke, *History of the Popes* ; Jervis, *History of the Church in France* ; Greisenger, *History of the Jesuits* ; *Monumenta Hist. Soc. Jesu* ; Cunningham Graham, *A Jesuit Arcadia* ; Stephens, *Essays in Ecclesiastical Biography* ; Voltaire, *Siccle du Louis Quatorze* ; *Lives of Peter the Great and Charles XII.* ; Mouravieff, *History of the Russian Church* ; Stanley, *Eastern Church*. For books dealing with the period in England and Scotland see under "Class of Church History."

- (c) *Biblical Criticism*.—(1) Canon and Text of the New Testament ; (2) General Introduction to the Gospels and Acts ; (3) Introduction to Proverbs and Jeremiah.

Books which may be consulted :

- (1) Gregory, *Canon and Text of the New Testament* ; Lake, *The Text of the New Testament* ; Nestle, *Textual Criticism of the New Testament* ; Kenyon, *Handbook to the Textual Criticism of the New Testament* ; Milligan, *New Testament Documents* ; (2) Moffatt, *Introduction to the Literature of the New Testament* ; Peake, *A Critical Introduction to the New Testament* ; (3) Driver's *Introduction* ; the relative articles in the *Encyclopedia Biblica* and Hastings' *Dictionary of the Bible* ; C. F. Kent, *Students' O.T.* ; Cheyne, *Job and Solomon* ; Toy, *Book of Proverbs* (I.C.C.) ; Kirkpatrick, *Doctrine of the Prophets*, 1901 ; S. R. Driver, *Book of Jeremiah*, 1906.

*In March and October, 1920.*

- (a) *Divinity*.—(1) Doctrine of Man ; (2) Doctrine of Sin ; (3) Christian Ethics.

Books which may be consulted :

Generally, Banks, *Manual of Christian Doctrine*, 9th ed. Specially (1) Wheeler Robinson, *Christian Doctrine of Man* ; Scott Elliot, *Prehistoric Man* ; Benjamin Kidd, *Social Evolution* ; (2) Orr, *Sin and its Problem To-Day* ; W. E. Orchard, *Modern Theories of Sin* ; Swete, *The Forgiveness of Sins* ; (3) Newman Smyth, *Christian Ethics* ; Alexander (A. B. D.), *Ethics of St. Paul*.

- (b) *Church History*.—Ecclesiastical History, from the breaking out of the Thirty Years' War (1619) to the Restoration of King Charles II. (1660).

Books which should be consulted :

Moeller, Mosheim, Kurtz, Neander ; Lodge, *The Students' Modern Europe* ; Cambridge *Modern History*, Vols. IV. and V. ; Schaff's *Creeds and Confessions* ; Ranke, *History of the*

*Popes*; Jervis, *History of the Church in France*; Greisenger, *History of the Jesuits*; *Monumenta Hist. Soc. Jesu*; Stephens, *Essays in Ecclesiastical Biography*; Mouravieff, *History of the Russian Church*; Chapman, *History of the Thirty Years' War*; S. R. Gardner, *Thirty Years' War*; Rait, *Stuart Princesses*; Bain, *Christina, Queen of Sweden*; Watson, *Reign of Philip III.*; De Retz, *Memoirs*; Wordsworth, *The Church of Sweden*. For books dealing with the period in England and Scotland see under "Class of Church History."

- (c) *Biblical Criticism*.—(1) Canon and Text of the New Testament; (2) General Introduction to the Pauline Epistles and the Epistle to the Hebrews; (3) Introduction to Proverbs and Ezekiel.

### 8.—HONORARY DEGREES.

The powers of the Senatus Academicus to grant Honorary Degrees are regulated by Ordinance No. 41 of the Universities Commission (1889) of date 13th December, 1893, which received the approval of Her Majesty in Council on 28th May, 1894.

#### Degree of Doctor of Divinity.

The following are the regulations for the Degree of D.D. :—

I. At the commencement of every session, the Senatus Academicus in each University shall appoint a committee, to be called the Committee on the Degree of Doctor of Divinity, consisting of the Principal, three Professors from the Faculty of Theology (of whom the Professor of Divinity shall be one), and three other Professors to be selected by the Senatus Academicus from the other Faculties.

II. It shall be the duty of this committee to select persons to be recommended to the Senatus Academicus for the degree; but the committee shall not entertain applications from or on behalf of persons desirous of receiving the degree.

III. The committee shall present a reasoned report, embodying its recommendations to the Senatus.

IV. In the case of every person recommended for the degree, the report shall contain a statement of the grounds on which the recommendation is founded, specifying such particulars as the Senatus may from time to time require.

Under this regulation the Senate requires the following particulars to be specified, viz. :—

- (a) Whether he is an alumnus of this University, and whether he already holds the Degree of B.D., or any other University Degree.
- (b) Whether he has published a contribution of merit to Theological Literature.

- (c) Whether his character and professional standing are such as to warrant the conferring of the proposed distinction.

V. No resolution to confer the Degree of Doctor of Divinity shall be moved in the Senatus except upon special notice given after a fortnight has elapsed from the date when the report of the committee shall have been presented.

#### Degree of Doctor of Laws.

The following are the regulations for the Degree of LL.D. :—

I. At the commencement of every session, the Senatus Academicus in each University shall appoint a committee, to be called the Committee on the Degree of Doctor of Laws, consisting of the Principal and such Professors selected from the various Faculties as the Senatus Academicus may determine, provided that the total number of the committee shall not exceed twelve.

II. It shall be the duty of this committee to select persons to be recommended to the Senatus for the degree, but the committee shall not entertain applications from or on behalf of persons desirous of receiving the degree.

III. The committee shall present to the Senatus a reasoned report embodying its recommendations.

IV. In the case of every person recommended for the degree, the report shall contain a statement of the grounds on which the recommendation is founded, specifying such particulars as the Senatus may from time to time require.

Under this regulation the Senate requires the following particulars to be specified, viz. :—

- (a) Whether he is an alumnus of this or any other University, and whether he already holds any academical degree.
- (b) Whether he is the author of any work of acknowledged merit, or has otherwise contributed to the progress of learning and science.
- (c) And, in general, whether his character, profession, and position in society are such as to warrant the conferring of the proposed distinction.

V. No resolution to confer the Degree of Doctor of Laws shall be moved in the Senatus except upon special notice given after a fortnight has elapsed from the date when the report of the committee shall have been presented.

---

#### ACADEMIC DRESS.

##### GRADUATES OF THE UNIVERSITY.

On ceremonial occasions the graduates are expected to appear in the Gown and Hood proper to their degrees.

The ordinary Gowns to be worn by graduates of the University of Glasgow are of black silk or stuff, of similar shape to those

appropriated to the corresponding degrees in the other British Universities.<sup>1</sup>

The full-dress Gowns to be worn by Doctors are of scarlet cloth, faced in each case with silk of the colour prescribed for the lining of the Hood proper to the degree.

The Hoods for the different degrees are as follows :—

B.A., Black Silk, bordered inside with Red Purple Silk (colour of Bell Heather—*Erica Cinerea*).

M.A., Black Silk, lined with Red Purple Silk.

D.Phil., Scarlet Cloth, lined with reddish Purple Silk.

D.Litt., Scarlet Cloth, lined with bluish Purple Silk.

B.Sc., Black Silk, bordered with Scarlet Cloth and lined with Gold Coloured Silk (colour of Whin Blossom—*Ulex Europæa*).

D.Sc., Scarlet Cloth, lined with Gold Coloured Silk.

B.L., Black Silk, with an inside border of Venetian Red Silk (colour of Clove Carnations).

LL.B., Black Silk, bordered with Scarlet Cloth and lined with Venetian Red Silk.

LL.D., Scarlet Cloth, lined with Venetian Red Silk.

M.B. and C.M., Black Silk, bordered with Scarlet Cloth and lined with Scarlet Silk.

M.B. and Ch.B., Black Silk, bordered with Scarlet Cloth and lined with Scarlet Silk.

M.D., Scarlet Cloth, lined with Scarlet Silk.

Ch.M., Black Silk, lined with Scarlet Silk.

B.D., Black Silk, bordered with Scarlet Cloth and lined with a light Cherry Silk.

D.D., Scarlet Cloth, lined with White Silk.

#### UNDER-GRADUATES.

By a Statute of the Commissioners appointed by the Act, 1690, chapter XVII., of the Parliament of Scotland, "for the Visitation of Universities and Schools," it was enacted that "all the students in the several Universities and Colleges within this kingdom be obliged to wear gowns during the time of the sitting of the Colleges," and that "the Regents or Masters be obliged to wear black gowns, and the students red gowns; and, in regard that wearing of gowns has never been the custom in the College of Edinburgh, the Commissioners do therefore recommend to the Masters of that College to endeavour to bring the custom of wearing gowns there into practice." It appears from the University records that the wearing of red gowns had been previously the practice in Glasgow, and it continued to be the practice in all the Arts classes which existed at the date of this statute uninterruptedly till recently.

<sup>1</sup> The Robemakers to the University have standard patterns of the gowns, which, it may be stated for the information of those at a distance, are of the same shape with the ordinary (or undress) gowns of the corresponding degrees at Cambridge.

The General Council of this University having requested the University Court to recommend to the Senate the propriety of requiring the students to conform to the ancient practice of this University as to academic dress ; and the University Court having remitted the subject to the determination of the Senate, with an expression of regret that the academical dress formerly worn by the Arts students has of late years been laid aside, the Senate has given notice that the proper academic dress for students in Arts is the red gown.

While this notice does not apply to students not in the Faculty of Arts, all students in the University are entitled to wear the red gown. Students may wear on the red gown a trimming distinctive of their faculty. The trimming approved for this purpose is a narrow silk band of the colour of the hood-lining proper to the degree of Bachelor in the Faculty, placed over the seam which crosses the breast of the gown on each side.

At the request of the Students' Representative Council the Senate, on 13th July, 1909, gave notice that all undergraduate students are entitled to wear the red gown and trencher cap. The red gown may be either plain, or distinguished by the ribbon characteristic of the Student's Faculty. Cap and gown should be worn on all official and ceremonial occasions.

At special ceremonies, when the announcement is made that "members of the University will wear academic dress," the undergraduates present should wear their red gowns.

#### CEREMONY OF GRADUATION.

The following are the regulations adopted by the Senate :—

All degrees honorary or gained by examination shall be publicly conferred, except in special cases to be decided by the Senate.

Candidates for graduation are required to appear in black gowns with the hoods appropriate to their degrees ; those who are already graduates, in the costume proper to their previous degree.

At graduation ceremonies members of the Senate who are Doctors should wear the hood of their degree over either the ordinary or the full-dress gown.

## X.—BURSARIES, SCHOLARSHIPS, *Etc.*, PRIZES.

N.B.—No alumnus of the University is allowed to hold at one time more than one Bursary, Scholarship, or Fellowship, except in cases provided for by the Regulations.

In the case of Bursaries in the gift of the Senate, in appointing to which "a preference" is to be given to certain names, etc., by a "preference" the Senate understand, in almost every instance, a preference *ceteris paribus*.

The following ordinance issued on 11th June, 1908, by the University Court with regard to Bursaries, Scholarships, and Fellowships, which have taken effect prior to the 30th day of August, 1864, was approved by His Majesty in Council on 26th September, 1908 :—

UNIVERSITY COURT ORDINANCE NO. XXVII. (GLASGOW, No. 8.—REGULATIONS AS TO BURSARIES, SCHOLARSHIPS, AND FELLOWSHIPS).

### GENERAL.

I. For the purposes of this ordinance, bursaries in the Faculty of Arts (hereinafter referred to as bursaries in Arts) shall be deemed to be the bursaries now attached to the said Faculty by Deed of Foundation or by custom.

II. Bursaries in Arts heretofore tenable for four years shall continue to be so tenable, provided that, if the holders graduate after the three years' course, they shall only retain their bursaries during the fourth year of tenure if they shall engage in a course of study approved by the Senatus Academicus in subjects included in the curriculum for Degrees in Arts or in Pure Science.

III. All bursars in Arts, subject to the provision as to the fourth year of tenure contained in the immediately preceding section, shall attend in each year at least two classes qualifying for graduation in Arts, and shall duly perform the work of these classes: Provided that it shall be in the power of the Senatus Academicus, with the approval of the University Court, to permit such bursars as they shall from time to time select to attend classes qualifying for graduation in Pure Science in place of classes qualifying for graduation in Arts.

IV. It shall be in the power of the Senatus Academicus to suspend or deprive a bursar, scholar, or fellow on the ground of misconduct, or, if it think fit, on the ground of his failure to obtain class certificates or to produce such other evidence as may be required that he is prosecuting his studies in a manner satisfactory to the Senatus Academicus.

V. Bursaries in Divinity heretofore tenable for four years shall continue to be so tenable, provided that, if the holders graduate after the three years' course, they shall only retain their bursaries during the fourth year of tenure if they shall engage in a course of study in Divinity approved by the Senatus Academicus.

VI. In the case of a bursary, scholarship or fellowship not in the gift of a patron becoming vacant by forfeiture or otherwise before the

expiry of the period of tenure, it shall be in the power of the *Senatus Academicus*, with the approval of the University Court, to determine as to the disposal thereof or of the income thereof during the remainder of the said period.

VII. Any bursary tenable in several Faculties successively shall not be attached to any one of such Faculties in any year other than a year in which in ordinary rotation it would have been attached to such Faculty.

VIII. It shall be in the power of the *Senatus Academicus* to require, as a condition of tenure, any holder of a scholarship or fellowship who is a graduate to engage in teaching within the University or to conduct tutorial classes, unless he shall satisfy the *Senatus Academicus* that he is pursuing special higher studies, or that he is engaged in original research.

IX. Each Examiner at examinations held by the University for the award of bursaries, scholarships, or fellowships shall receive suitable remuneration, and it shall be in the power of the University Court to charge the funds of bursaries, scholarships, or fellowships with the necessary expenses of examination.

#### OPEN BURSARIES.

X. (1) The subjects and methods of the examinations for the award of open bursaries in Arts of the first year (hereinafter referred to as the Bursary Examinations) shall be prescribed by the *Senatus Academicus*, with the approval of the University Court, and the examinations shall be held at such times and places as the *Senatus Academicus*, with the approval of the University Court, may determine.

(2) No candidate shall obtain a bursary in Arts who shall not have passed the Preliminary Examination in Arts or have been exempted therefrom in accordance with the provisions of the Regulations for Degrees in Arts.

XI. It shall be competent for the *Senatus Academicus*, with the approval of the University Court, from time to time to make regulations as to the conditions under which persons shall be eligible to compete for bursaries of the first year in the Faculties of Arts and Science: Provided always that no student, who has during any term or period of the academical year attended any class qualifying for graduation in the said Faculties in any Scottish University, shall be eligible to compete for such bursaries.

The University Court shall communicate to the General Council the regulations made from time to time by the *Senatus Academicus*, and any representation made thereon by the General Council within two months of the date of such communication shall be taken into consideration by the University Court before such regulations are approved.

XII. The *Senatus Academicus*, in determining the results of the Examinations for the award of bursaries in Arts of the first year, may

award such bursaries in respect of exceptional distinction in any one branch of study.

XIII. Bursaries open for competition to students entering on their first session of attendance in the Faculty of Medicine shall be tenable only by those students who have passed the Preliminary Examination in Medicine, or who have been exempted therefrom in accordance with the provisions of the Regulations for Degrees in Medicine, and who have not attended any class qualifying for graduation in Medicine: Provided always that the last-mentioned condition shall not be held to exclude a candidate who may have attended the class of Physics, Chemistry, Botany, or Zoology, otherwise than as part of a graduation course in Medicine.

#### RESTRICTED AND PREFERENTIAL BURSARIES.

XIV. Candidates for bursaries in Arts which are not awarded by open competition shall present themselves for examination at one of the Bursary Examinations above mentioned, and no bursary shall be awarded to any candidate who shall not have passed the Preliminary Examination in Arts or been exempted therefrom in accordance with the provisions of the Regulations for Degrees in Arts.

XV. In the case of a bursary, scholarship, or fellowship in the gift of a patron, including bodies corporate and not corporate, becoming vacant by forfeiture or otherwise during the period of tenure, the Senatus Academicus shall forthwith give notice of the vacancy to the patron, who may, within such time as the Senatus shall fix, appoint to the vacant bursary a person who is qualified by having passed or obtained exemption from the Preliminary Examination in Arts; and if the patron fail to do so within such time, the Senatus Academicus may select a deserving student, who is so qualified, to fill the vacancy until the commencement of the next academical year, when the patron's right to present shall revive.

XVI. On the occurrence of a vacancy in any bursary in the gift of a patron, including bodies corporate and not corporate, at the expiry of the period of tenure, the Senatus Academicus shall give notice of such vacancy to the patron of the bursary and of the date of the Bursary Examination next ensuing; and the patron may, if he think fit, submit to the Senatus the names of two or more persons qualified to hold such bursary, who shall present themselves for examination at the said Bursary Examination; the result of the examination shall be communicated by the Senatus to the patron for his information, and he shall thereafter present to the bursary.

XVII. In the case of a bursary in the gift of a patron, including bodies corporate and not corporate, if before the commencement of the academical year no person be presented who shall have become qualified to hold the bursary by the date at which open bursaries are awarded, the bursary shall be open to unrestricted competition for that year; and in the event of no person who shall have become qualified as above provided being presented before the commencement of the next

academical year, the Senatus may either award the bursary as if it were open to unrestricted competition, or continue the same to the student to whom it had previously been awarded: Provided that this section shall not apply in cases where the patron shall before such award is made satisfy the Senatus Academicus that proper arrangements have been made for the selection of a qualified bursar.

#### MISCELLANEOUS.

XVIII. In the case of bursaries designed for poor students, the Senatus Academicus shall satisfy itself that the circumstances of candidates are such as to entitle them to the benefit of the endowment, and for this purpose the Senatus may require that a declaration be made by a parent or guardian, or by the minister of religion or schoolmaster, of each candidate as the Senatus shall think fit.

XIX. [Preferences and restrictions cancelled. These have been noted under each bursary concerned.]

XX. Nothing herein contained shall apply to any bursary or endowment granted by any incorporation or society whose funds, whether capital or revenue, have been and are contributed and paid by the members of such incorporation or society by way of entry moneys or other fixed or stated contributions.

XXI. The Senatus Academicus, with the approval of the University Court, shall prescribe the subjects and methods of examination and the conditions of competition for bursaries, scholarships, or fellowships, in so far as the same are not prescribed by ordinance or by deed of foundation.

XXII. The provisions of any Ordinance of the Commissioners under the Universities (Scotland) Act, 1858, in so far as inconsistent with the provisions of this ordinance, are hereby repealed; and any references made in existing Ordinances applicable to the University of Glasgow to Ordinance No. 57 of the Commissioners under the Universities (Scotland) Act, 1889, shall be deemed to refer to this Ordinance.

XXIII. This ordinance shall come into force from and after the date on which it is approved by His Majesty in Council: Provided that nothing herein contained shall extend to, or affect the interests of, any person holding a bursary, scholarship, or fellowship at the date of its coming into force.

#### BURSARIES FOR WOMEN.

On 10th March, 1898, the University Court, in virtue of the power conferred by Ordinance No. 58, Section I., resolved to appropriate to competition, without restriction as to sex, all the open bursaries tenable in Arts, Science, or Medicine, which have taken effect prior to 30th August, 1864. To a number of other Bursaries either men or women may be appointed. In the following lists of Bursaries arranged according to Faculties, *italics* are used in printing the names of those Bursaries for which both men and women are eligible.

## A.—BURSARIES ARRANGED ACCORDING TO FACULTIES.

## BURSARIES IN THE FACULTY OF THEOLOGY.

Bursars in the Faculty of Theology are required to attend each session the Divinity Class and any two of the three classes of Hebrew, Church History, and Biblical Criticism.

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Adam, John, - - - - -	3	4	£18
Black, - - - - -	2	3	£44
Boyd and Sanders, - - - - -	1	3	£13 16/8
Boyd and Wilson, - - - - -	1	3	£24 6/8
Brown or Ettles, - - - - -	2	3	£27
Dundonald, - - - - -	6	3	£41 2/6
John Ferguson, - - - - -	1	3	£56
Gilhagie and Struthers, - - - - -	1	3	£19 12/8
Hamilton, - - - - -	3	3	£25
Hastie, - - - - -	2	3	£27
Logan, - - - - -	1	3	£16
Lorimer, - - - - -	4	3	£25 and £17
Lumsden, - - - - -	1	4	£18
Macfarlane, James, - - - - -	1	3	£35
Mackie Knockgerran, - - - - -	1	3	£45
Marshall, - - - - -	1	4	£17
Morgan, - - - - -	8	1	£20
Muir, - - - - -	1	3	£34
Muir, William, - - - - -	2	2	£25
Notman, - - - - -	1	3	£18
Ross, John, jun., - - - - -	1	3	£35
King William's, - - - - -	2	3	£20

## BURSARIES IN THE FACULTY OF LAW.

Cunninghame, Andrew, - - - - -	2	1	£37
Macfarlane, Robert, - - - - -	3	3 and 1	£33
Merchants' House, - - - - -	1	3	£25
Walkinshaw-Young, - - - - -	1	2	£18
Major Young's Fund, - - - - -	2	6 and 2	£26

## BURSARIES IN THE FACULTY OF MEDICINE.

Arthur, <sup>1</sup> - - - - -	1	3	£20
Brisbane, - - - - -	1	4	£40
Davidson, - - - - -	1	3	£34
Gardiner, <sup>2</sup> - - - - -	1	2	£14
Gibson, Dr. Thomas, <sup>2</sup> - - - - -	1	4	£36
Glasgow Highland Society, - - - - -	6	5	£25
Logan, <sup>2</sup> - - - - -	1	4	£16
Lorimer, - - - - -	4	3	£25 and £17
Macarthur, - - - - -	1	2	£20
Macfarlane, John, - - - - -	1	3	£48
Mackintosh, <sup>2</sup> - - - - -	1	1	£31

<sup>1</sup> Open to women students only.<sup>2</sup> Both men and women are eligible.

BURSARIES IN THE FACULTY OF MEDICINE—*Continued.*

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Marshall, - - - - -	1	4	£17
Merchants' House, - - - - -	2	4	£25
Monteith, John, - - - - -	2	2	£21
Oliphant, John, - - - - -	1	6	£35
<i>Paterson, James A.</i> , <sup>1</sup> - - - - -	8	4	£25 and £20
Rainy, - - - - -	2	2	£20
Walton, - - - - -	1	4	£35
Weir, Andrew, - - - - -	1	1	£18

## BURSARIES IN THE FACULTY OF SCIENCE.

Cuthbertson, Donald, - - - - -	1	3	£35
Kerr, Malcolm, - - - - -	2	3	£25
M'Ewen, Malcolm (Arts or Science), - - - - -	1	4	£16
Metcalf, - - - - -	4	2	£25
Muir (Civil Engineering), - - - - -	2	1	£13
Oliphant, John (Engineering), - - - - -	1	3	£35
Pender Memorial, - - - - -	2	2	£30
Shipwrights' Company, - - - - -	1	3	£50
Strang, - - - - -	4	3	£20
Young, George, - - - - -	1	1	£38

## BURSARIES IN THE FACULTY OF ARTS.

Bursars in the Faculty of Arts are required to attend at least two classes each session.

Adam, James, - - - - -	2	4	£17
Adamson, - - - - -	1	3 or 4	£20
<i>Barbour (Kilbarchan)</i> , <sup>1</sup> - - - - -	1	3	£25
Biggart Memorial, - - - - -	10	4	£25
Black, - - - - -	2	4	£22
Blackquarry School, - - - - -	1	4	£14
Brand, - - - - -	3	4	£29
Brown, Ebenezer, - - - - -	1	3	£38
Browne (Ayrshire), - - - - -	2	4	£22
Brown-Paton, - - - - -	2	3	£17
<i>Buchanan</i> , <sup>1</sup> - - - - -	2	3	£14
<i>Campbell</i> , <sup>1</sup> - - - - -	2	3 or 4	£10
<i>Clark, John (Mile-end)</i> , <sup>1</sup> - - - - -	24	4	£30
Craig, - - - - -	1	4	£25
<i>Craig, Archibald</i> , <sup>1</sup> - - - - -	1	2	£9
<i>Crawford and Brown</i> , <sup>1</sup> - - - - -	1	4	£19 13/4
Davidson, - - - - -	1	3	£34
Duart, - - - - -	1	3	£32
Duncan's Bute, - - - - -	2	4	£38
Dundonald, - - - - -	8	4	£40
<i>Forfar</i> , <sup>1</sup> - - - - -	5	4	£38
<i>Forrester</i> , <sup>1</sup> - - - - -	1	3	£20
<i>Foundation</i> , <sup>1</sup> - - - - -	2	4	£20
<i>Franco-Scottish Society</i> , <sup>1</sup> - - - - -	—	—	—
Fullarton of Overton, - - - - -	5	2	£22

<sup>1</sup> Both men and women are eligible.

BURSARIES IN THE FACULTY OF ARTS—*Continued.*

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
<i>Gardiner</i> , <sup>1</sup> - - - - -	1	2	£14
<i>Gartmore</i> , <sup>1</sup> - - - - -	1	3	£22
<i>General Council</i> , <sup>1</sup> - - - - -	5	3 or 2	£20
<i>Glasgow City Educational Endowments</i> , <sup>1</sup>	20	4 or 2	£25 and £50
<i>Grant, George</i> , <sup>1</sup> - - - - -	1	3 or 4	£40
<i>Grant, George, jun.</i> , <sup>1</sup> - - - - -	1	4	£40
<i>Hamilton</i> , - - - - -	3	3	£20
<i>Hamilton Educational Trust</i> , <sup>1</sup> - - - - -	3	3	£20
<i>Hannay</i> , - - - - -	3	3	£15
<i>Hastie</i> , <sup>1</sup> - - - - -	1	4	£27
<i>Highland Society, Glasgow</i> , <sup>1</sup> - - - - -	12	3	£20
<i>Hill</i> , <sup>1</sup> - - - - -	6	3	£20
<i>Howison and Gilchrist</i> , - - - - -	1	4	£10
<i>Hutchesons' Educational Trust</i> , - - - - -	20	4	£20
<i>Hyndford and Ross</i> , - - - - -	1	4	£10 16/8
<i>Jaffrey, John Ferguson</i> , - - - - -	1	2	£32
<i>Kerr, Malcolm (Nat. Phil.)</i> , - - - - -	1	3	£25
<i>Laing, Alexander</i> , - - - - -	1	3	£20
<i>Laing, James</i> , <sup>1</sup> - - - - -	8	4	£25
<i>Laing</i> , <sup>1</sup> - - - - -	6	2	£27
<i>Leadbetter</i> , - - - - -	1	4	£9
<i>Leyden, John</i> , - - - - -	1	3	£14
<i>Lochhead, James</i> , - - - - -	1	3	£17
<i>Lochhead and Mitchell</i> , - - - - -	2	4	£34
<i>Lorimer (Phil.)</i> , - - - - -	4	3	£25 and £17
<i>Lorimer (Math.)</i> , <sup>1</sup> - - - - -	4	3	£25 and £17
<i>Lusk</i> , - - - - -	1	3	£37
<i>M'Crie</i> , - - - - -	4	4	£25
<i>M'Culloch</i> , - - - - -	1	4	£18
<i>MacDougall</i> , - - - - -	3	3	£33
<i>M'Ewen, Malcolm (Arts or Science)</i> , - - - - -	1	4	£16
<i>M'Farlane, Robert (Arts or Law)</i> , - - - - -	1	3	£33
<i>MacGrouther</i> , - - - - -	2	4	£20 and £15
<i>M'Kissack</i> , - - - - -	1	4	£20
<i>Maclean Trust</i> , <sup>1</sup> - - - - -	4	4	£25
<i>Maitland Club</i> , - - - - -	1	—	£6
<i>Manderson, Alexander</i> , <sup>1</sup> - - - - -	1	3	£15
<i>Marshall Trust</i> , <sup>1</sup> - - - - -	20	4	£30
<i>Meiklejohn, William</i> , - - - - -	1	4	£20
<i>Menzies</i> , - - - - -	4	4	£45
<i>Merchants' House</i> , - - - - -	1	4	£25
<i>Miller</i> , - - - - -	1	3	£24
<i>Monteith</i> , - - - - -	3	3	£15
<i>Morgan</i> , - - - - -	16	1	£20
<i>Muir (Mathematics, Senior)</i> , - - - - -	1	1	£17
<i>Muir (Mathematics, Junior)</i> , - - - - -	1	2	£8 10/
<i>Paterson, James (Baptist)</i> , - - - - -	1	4	£22
<i>Paterson, James</i> , - - - - -	1	3	£17
<i>Paterson, James A.</i> , - - - - -	8	3	£30, £20, and £10

<sup>1</sup> Both men and women are eligible.

BURSARIES IN THE FACULTY OF ARTS—*Continued.*

FOUNDATION.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
		Years.	
Patrick, - - - - -	3	4	£32
Perthshire Society, - - - - -	1	3	£25
Pollock, - - - - -	3	3	£38
Ramsay-Walker, - - - - -	2	4	£15
Scott ( <i>Sir Walter</i> ), <sup>1</sup> - - - - -	4	4	£25
Stevenson of Dalry, - - - - -	2	4	£33
Stewart, A. & B., <sup>1</sup> - - - - -	15	3	£20
Stewart, <sup>1</sup> - - - - -	3	4	£15
Thomson, James (Philosophical), - - - - -	1	2	£11
King William's, <sup>1</sup> - - - - -	2	3	£15

## BURSARIES IN THE FACULTIES OF ARTS AND THEOLOGY.

Ardkinglass, - - - - -	1	6	£9 10/
Buchanan (Bellfield), - - - - -	2	7	£47
Leighton, - - - - -	1	3	£18
Williams, - - - - -	4	3 or 4	£4

## BURSARIES IN THE FACULTIES OF ARTS OR THEOLOGY.

Lamb, <sup>1</sup> - - - - -	1	—	£12
Simson, - - - - -	1	—	£18

## BURSARIES IN THE FACULTIES OF LAW OR MEDICINE.

Stewart, A. & B., <sup>1</sup> - - - - -	5	3	£50
--	---	---	-----

## BURSARIES IN THE FACULTIES OF ARTS, LAW, OR MEDICINE.

Macdonald, - - - - -	2	4	£17
William Whyte, - - - - -	4	4	£25

## BURSARIES IN THE FACULTIES OF ARTS AND SCIENCE.

Murray, Mary Jane, <sup>2</sup> - - - - -	1 or more	4	£40
---	-----------	---	-----

## BURSARIES IN THE FACULTIES OF ARTS, SCIENCE, OR MEDICINE.

Wedderburn Ogilvy, - - - - -	2	3	£30
------------------------------	---	---	-----

## BURSARIES IN THE FACULTIES OF THEOLOGY, LAW, OR MEDICINE.

Armagh, <sup>1</sup> - - - - -	3	3	£52
Bell, - - - - -	—	—	£50
Hutcheson, Thomas, - - - - -	1	4	£11 2/24

## BURSARIES IN ANY FACULTY.

Ayrshire Society, <sup>1</sup> - - - - -	4	3	£15
Denny, <sup>1</sup> - - - - -	4	4	£30
Dumfriesshire Society, <sup>1</sup> - - - - -	2	4	£15
Ferguson, James, - - - - -	2	2	£100
Forrest, - - - - -	5	5 or less	£22
Gibson, John, - - - - -	2	3	£20
Hart, <sup>1</sup> - - - - -	2	5	£30
Johnstone, Robert, - - - - -	1	3	£15
Kintyre (Ker), - - - - -	1	3	£20
Kintyre, Alexander Love, <sup>1</sup> - - - - -	1	4	£20
M'Kechnie, - - - - -	2	4	£35
Pratt, <sup>1</sup> - - - - -	2	4	£20
Shearer, - - - - -	3	3	£30
Smith, - - - - -	1	4	£16
Stillie, <sup>1</sup> - - - - -	1	1	£5
Taylor, <sup>1</sup> - - - - -	2	4	£10

<sup>1</sup> Both men and women are eligible.<sup>2</sup> Open to women students only.

## 2. EXHIBITIONS, FELLOWSHIPS, AND SCHOLARSHIPS.

## ALPHABETICALLY ARRANGED.

N.B.—In cases in which a Scholarship or Fellowship falls vacant otherwise than by lapse of time, the Senate may, except where it is inconsistent with the deed of foundation, hold a competition, and make an appointment for the remainder of the period for which such Fellowship or Scholarship may be held. At the next ordinary competition no student shall be excluded from the competition by reason of his having previously been appointed to fill a vacancy for less than the full period; but in no case shall any student hold such Scholarship or Fellowship for longer than the full period fixed in the regulations applicable to such foundation.

FOUNDATION.	No. of Scholarships, &c.	TENABLE BY	Approximate Annual Value of each.
Barbour, - - - - -	1	Masters of Arts of Glasgow Univ.,	£200
Black Theological, - -	1	Masters of Arts of Scot. Univ., -	£154
Breadalbane, <sup>1</sup> - - -	2	M.A. or B.Sc., Eng., Glas. Univ.,	£56
Clark, George A., - -	4	3 M.A., 1 M.A. or B.Sc., do.	£170
Clark, John, (Mile-end), <sup>1</sup>	12	Arts Students at close of Curric.,	£50
Coats Memorial, - -	1	Medical Graduates of Glas. Univ.,	£85
Donaldson, Alexander,	1	Candidates for B.Sc. (Chemistry),	£44
Donaldson, Robert, -	2	Bachelors of Science of Gl. Univ.,	£66
Eglinton, <sup>1</sup> - - - - -	2	Masters of Arts of do.	£65
Euing, William, - -	3	Do. do.	£100
1851 Exhibition Science,	2	Science Students, - - - - -	£150
Ferguson, - - - - -	6	Masters of Arts of Scot. Univ., -	£80
Foulis Memorial, - -	1	Medical Graduates or Licentiates,	£50
Grocers' Company, - -	2	Research Stud. in Public Health,	£300
Houldsworth, - - -	1	Research Students in Nat. Phil.,	£150
Lloyd's Register, - -	3	Students of Naval Architecture,	£50
Lowson, P.A., - - -	1	(See page 486), <sup>2</sup> - - - - -	£70
Luke, <sup>1</sup> - - - - -	1	Masters of Arts of Glas. Univ., -	£95
MacCunn, <sup>1</sup> - - - - -	4	Medical Graduates of Scot. Univ.,	£100
Mackay Smith, - - -	2	Students in Nat. Phil. and Chem.,	£48
Mackinnon, <sup>1</sup> - - - -	1	(See page 489), <sup>2</sup> - - - - -	£60
Metcalfe, - - - - -	1	Masters of Arts of Glas. Univ.,	£120
Mining, - - - - -	2	Graduates in Science, - - -	£50
Newlands, - - - - -	4	Snell Exhibitioners, - - -	£83
Reid-Stewart, - - -	1	Masters of Arts of Glas. Univ., -	£60
Robertson, Robert W.,	1	LL.B. of Glas. Univ., - - -	£30
Rosebery Studentship,	1	M.A. (Hon. in History), - - -	£60
Sandford, - - - - -	1	Greek Students, Glas. Univ., -	£20
Scott (Sir Walter), -	1	Masters of Arts of do.	£80
Shaw Philosophical, -	1	Do. Scot. Univ., - - -	£160
Snell (at Oxford), - -	5	Masters of Arts, etc., Glas. Univ.,	£80
Strang Steel, <sup>1</sup> - - -	1	(See page 499), <sup>2</sup> - - - - -	£160
Thomson Experimental	3	Students of Natural Philosophy,	£20
Watt, James, - - -	1	Bachelors of Science, - - -	£42

<sup>1</sup> Both men and women are eligible.

<sup>2</sup> The reference is to *University Calendar*, 1916-17.

## 3.—PRIZES.

## INDEX.

FOUNDATION.	NATURE OF PRIZE.	AWARDED FOR
Arnott, - - - - -	£25 and £15,	Examinations.
Asher Asher Memorial,	Gold Medal,	Do.
Sheriff Balfour Prize, -	£7 (approx.),	Do.
Bellahouston, - - - -	Gold Medals,	Thesis for M.D.
Bradley, - - - - -	Bronze Medal,	Examinations.
Brunton Memorial, -	£10,	Examinations.
Buchanan (3), - - - -	Books,	Do.
Burnet, Lindsay, - -	Silver Medal,	Research.
Cleland, - - - - -	Gold Medal,	Examinations.
Cleland & Rae Wilson,	Four Gold Medals,	Do.
Coulter, - - - - -	Two at £5 each,	Essays.
Cowan, - - - - -	Three Gold Medals,	Examinations.
Cunninghame, - - - -	Gold Medal,	Do.
Denny, Archibald, - -	£10,	Do.
Dickson Prize, - - - -	Books,	Do.
Dobbie-Smith, - - - -	Gold Medal (biennial),	Essay.
Dowanhill, - - - - -	£20 and £10,	Elocution.
Ewing, - - - - -	Gold Medal (biennial),	Essay.
Findlater, - - - - -	£38,	Examination.
Gartmore, - - - - -	Gold Medal (biennial),	Essay.
Geographical Society, -	Silver Medal,	Essay.
Gladstone Historical, -	£25 (biennial),	Examination.
Gladstone Memorial, -	£5 in Books,	Do.
Guthrie, William (2), -	£6,	Examinations.
Harvey, George, - - -	£14,	Examination.
Henderson, - - - - -	£21,	Essay.
Herkless, - - - - -	£22,	Examination.
Jack, William, - - - -	£35 (approx.),	Thesis for D.Sc.
Jamieson, - - - - -	£10,	Examination.
Jeffrey, - - - - -	Gold Medal,	Do.
Kelvin, - - - - -	Gold Medal and £35 (approx.),	Thesis for D.Sc.
Kirk Memorial, - - - -	£14,	Examination.
Logan, Thos., Memorial,	Gold Medal and £12,	Do.
Luke Historical, - - -	£10 (biennial),	Do.
Macfarlan and Cook, -	£21,	Do.
Mackenzie, - - - - -	£25,	Essay.
Macleod, - - - - -	Gold Medal,	Examination.
Miller, Dr., - - - - -	Books,	Essay.
Muirhead, - - - - -	Books,	Examination.
Muirhead, G. Roger, -	£2 5s.,	Do.
Nichol Memorial, - - -	Books,	Do.
Ramsay Memorial, - - -	Gold Medal,	Examinations.
Reid, John, - - - - -	£25,	Original Research.
Ross, Robert (2), - - -	Med., Books, or Money,	Examinations.
Scott-Macfarlan, - - -	Gold Medal,	Examination.
Straits Settlements, -	Gold Medal,	Thesis for M.D.
Struthers, - - - - -	Gold Medal and Money,	Research.
University, - - - - -	Silver Medal,	Essay.
Walker (4), - - - - -	Books, etc.,	Examinations.
Watson, - - - - -	£50,	Examination.

*Women Students desiring to compete for any prize not open to women exclusively, or for which their eligibility is not expressly indicated by the regulations, should consult the Registrar in the first instance.*

## LIST OF BURSARIES, &c., OPEN TO COMPETITION DURING SESSION 1918-19.

*N.B.—For Bursaries, etc., open to Women students see pp. 395-400.*

### A.—FACULTY OF ARTS.

#### 1.—BURSARIES.

FOR STUDENTS ENTERING THE FIRST OR SECOND SESSION IN ARTS.

1, 2, 3. *Three James A. Paterson Bursaries*, annual value £30, £20, and £10 respectively, tenable for three years, for students preparing for the Ministry of the United Free Church. The subjects of examination are Hebrew (Book of Ruth) and Greek (Acts of the Apostles).

4. *James Paterson Bursary*, annual value £17, tenable for three years. The subjects of examination are Latin (Virgil), Greek (New Testament), Hebrew (Proverbs), and Logic (Whately's Logic).

FOR STUDENTS IN ARTS WITHOUT RESTRICTION TO A PARTICULAR SESSION.

5. *Muir Junior Bursary in Mathematics*, annual value £8 10s., tenable for sessions 1919-20, 1920-21. The appointment will be determined by the results of the written examinations passed in the course of the session 1918-19 by the public students of the Ordinary Class of Mathematics.

6. *Muir Senior Bursary in Mathematics*, annual value £17, tenable for session 1919-20. The appointment will be determined by the results of the written examinations passed in the course of the session 1918-19 by the public students of the Intermediate Honours Mathematical Class.

7. *Lanfne Bursary in Economic Science*, annual value £27, tenable for two years.

8. *Lanfne Bursary in History*, annual value £27, tenable for two years.

9. *Lanfne Bursary in Semitic Languages*, annual value £27, tenable for two years.

#### 2.—FELLOWSHIPS, SCHOLARSHIPS, ETC.

10. *Mackinnon Scholarship in Modern Languages*, value £120, tenable for one year, for proficiency in Modern Languages. Open to all matriculated students.

11. *Gladstone Memorial Prize* of books to the value of £5 is open to graduates of this University who have taken the Degree of M.A. with Honours or to students presenting themselves in October, 1918, for examination for the Degree of M.A. with Honours in Economic Science,

but no one whose Arts course began before session 1912-13 is eligible. See p. 510.<sup>1</sup>

12. *Sandford Scholarship*, annual value £20, tenable for two years. Open to all matriculated students (not Masters of Arts) who have attended the public Greek classes for not less than two sessions. See p. 494.<sup>1</sup>

13. *Snell Exhibition*, total value £400, tenable for five years (see p. 497).<sup>1</sup> Candidates must have been born in Scotland, or must be sons of fathers born in Scotland, and must "have resided as undergraduate students for two years at least in Glasgow College, or for one year in that College and two at least in some other College in Scotland."

14. *Newlands Scholarship*, annual value £83, tenable for four years. Awarded to the successful competitor for the Snell Exhibition.

15. *Thomas Logan Memorial Medal and Prize* will be awarded in June, 1919, to the graduate in Arts of the year 1918 who shall have obtained the highest marks in the Degree examinations.

16. *Herkless Prize* of about £22 will be awarded in June, 1919, to the most distinguished Woman graduate in Arts of the year 1918.

#### DATES OF EXAMINATIONS.

The examinations for Nos. 1, 2, 3, and 4 will be held on Saturday, 12th October, at 9 a.m. and 2 p.m.

The examinations for Nos. 10 and 11 will be held along with the examinations for Honours in the several departments for the Degree of M.A. in September-October, 1918; for No. 12 in April, 1919; and for Nos. 13 and 14, at dates to be fixed hereafter.

#### ENTRY OF NAMES.

Candidates for Nos. 1 to 4 inclusive are required to give in their names to the Registrar not later than Tuesday, 27th August.

Candidates for Nos. 10 and 11 are required to give in their names (*on a special form*) to the Registrar not later than 27th August; for No. 12, before the end of March, 1919; for Nos. 13 and 14 candidates are expected to inscribe their names in a book kept by the Registrar for the purpose, not later than 1st November, 1918.

### B.—FACULTY OF SCIENCE.

1. *Strang Steel Research Scholarship* in Group (b)—see p. 499.<sup>1</sup> Annual value £160. Applications to be sent to the Clerk of Senate before end of September, 1918.

2, 3. *Muir Bursaries in Mathematics*—see Nos. 5 and 6 under Faculty of Arts.

4, 5. *Muir Bursaries in Civil Engineering and Mechanics*, each of annual value £13, tenable for session 1919-20. See p. 449.<sup>1</sup>

<sup>1</sup> The reference is to *Univ. Cal.* 1916-17.

6. *Kirk Memorial Prize* of £14 for students completing Final Science Examination for B.Sc. on the side of Naval Architecture. See p. 513.<sup>1</sup>

7. *Denny Prize* of £10 for students completing Final Science Examination for B.Sc. on the side of Naval Architecture. See p. 507.<sup>1</sup>

8. *Lindsay Burnet Silver Medal*, for a Thesis in Engineering. See p. 504.<sup>1</sup>

For the *Denny Bursaries*, the 1851 *Exhibition Science Scholarships*, the *Dobbie Smith Gold Medal*, the *George Harvey Prize*, the *G. R. Muirhead Prize*, and the *Walker Prizes*, see pages 410, 482, 508, 510, 516, 519, respectively.<sup>1</sup>

### C.—FACULTY OF MEDICINE.

Section XIII. of University Court Ordinance No. XXVII. is as follows:

Bursaries open for competition to students entering on their first session of attendance in the Faculty of Medicine shall be tenable only by those students who have passed the Preliminary Examination in Medicine, or who have been exempted therefrom in accordance with the provisions of the Regulations for Degrees in Medicine, and who have not attended any class qualifying for graduation in Medicine: Provided always that the last-mentioned condition shall not be held to exclude a Candidate who may have attended the class of Physics, Chemistry, Botany, or Zoology, otherwise than as part of a graduation course in Medicine.

1. *Lorimer Bursary*, annual value £25, tenable for three years, for examination in Chemistry, Botany, and Elementary Anatomy. Open to medical students entering on their second winter session. The marks previously obtained in Botany and Chemistry of the First Professional Examination by students who have passed either or both of these subjects are reckoned in the competition for the bursary, and students are not at liberty to take the subject or subjects again.

2. *John Monteith Bursary*, annual value £21, tenable for two years, will be awarded in November to the student who gains the highest number of marks in Anatomy and Physiology in March and October, 1918.

3. *Rainy Bursary*, annual value £20, tenable for two years. Open to students entering on their fourth session of medical study. See p. 458.<sup>1</sup>

4. *Andrew Weir Bursary*, value £18, tenable for one year, will be awarded in November in accordance with results of Second and Third Professional Examinations.

5. *Mackintosh Bursary*, value £31, tenable for one year. Open to medical students of either sex who have attended one of the courses of Lectures on Insanity.

6. *Junior Arnott Prize*, of about £15, for an examination in General Physics, open to students of the first and second years of their medical studies.

<sup>1</sup> The reference is to *Univ. Cal.* 1916-17.

7. *Senior Arnott Prize*, of £25, for an examination in Physiological Physics, open to students of the third and fourth years of their medical studies.

8. *Brunton Memorial Prize*, of about £10, is given to the most distinguished graduate in Medicine of the year.

#### DATES OF EXAMINATIONS.

The examinations for No. 1 will be held on Friday, 27th September, at 9 a.m.; on Saturday, 28th September, at 12 noon; and on Monday, 7th October, at 9 a.m.; and for Nos. 6 and 7, on Friday, 4th October, at 2 p.m. The examination for No. 5 will be held in June.

#### ENTRY OF NAMES.

Candidates for No. 1 are required to give in their names to the Registrar not later than 30th August; for Nos. 6 and 7 not later than 27th August.

For the *Denny*, the *Hutchesons' Educational Trust*, the *Pratt*, the *William Whyte*, the *Armagh*, and the *James Ferguson Bursaries*, also tenable by students of Medicine, see pp. 410, 427, 458, 468, 399, 412, respectively.<sup>1</sup> For the *Andrew and Bethia Stewart Bursaries*, see p. 462; and for the *M'Cunn Research Scholarships* tenable by graduates, see p. 488.<sup>1</sup>

### D.—FACULTY OF LAW.

1. *Andrew Cunninghame Bursary*, value about £37, tenable for one year, for proficiency in Scots Law. See p. 408.<sup>1</sup>

2. *Andrew Cunninghame Bursary*, value about £37, tenable for one year, for proficiency in Conveyancing. See p. 408.<sup>1</sup>

5. *Robert W. Robertson Scholarship*, value about £30, for excellence in the examinations for the Degree of LL.B. See p. 492.<sup>1</sup>

#### ENTRY OF NAMES.

Candidates for Nos. 1 and 2 are required to give in their names to the Registrar not later than 1st March.

For the *Denny*, the *Hutchesons' Educational Trust*, the *Pratt*, the *William Whyte*, the *Armagh*, and the *James Ferguson Bursaries*, also tenable by students of Law, see pages 410, 427, 458, 468, 399, 412, respectively.<sup>1</sup> For the *Andrew and Bethia Stewart Bursaries*, see p. 462.<sup>1</sup>

### E.—FACULTY OF THEOLOGY.

1. *Black Bursary*, annual value £44, tenable for three years. Open to students of Theology of the first year who are qualified as specified at p. 402.<sup>1</sup>

<sup>1</sup> The reference is to Univ. Cal. 1916-17.

2. *John Ferguson Bursary*, annual value £56, tenable for three years. Open to graduates in Arts of any University in the United Kingdom who are entering the Divinity Hall with a view to the Ministry of the Church of Scotland. See p. 413.<sup>1</sup> Applications to be sent to the Clerk of Senato before 30th September.

3. *Hastie Bursary*, annual value £27, tenable for three years. Open to students of Theology of the first year who are Masters of Arts of any Scottish University, or who have passed all the examinations for graduation in Arts.

4. *Lorimer Bursary*, annual value £25, tenable for three years. Open to students entering the Divinity Hall.

5. *Matthew A. Muir Bursary*, annual value £34, tenable for three years. Open to students of Divinity of the first year who hold a degree in Arts of any Scottish University, or who have passed their examinations in four subjects, taken out of at least two departments, for graduation in Arts.

6. *William Muir Divinity Bursary*, annual value £25, tenable for two years. Open to candidates who have passed the examination of the Examining Board for entrance to the Divinity Hall of the University. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, Glasgow, not later than 23rd September.

7. *Notman Bursary*, annual value £18, tenable in the Divinity Course.

8. *The Macfarlan and Cook Testimonial Prize*, of £21, open to Theological students of three years' standing. Examination in Greek, Moral Philosophy, Hebrew, Church History, and Divinity.

9. *Dr. Andrew Miller Prize*. See p. 515.<sup>1</sup>

10. *Mackenzie Scholarship or Divinity Prize* of £25, for an Essay. See p. 515.<sup>1</sup>

For the *Armagh* and the *James Ferguson Bursaries*, also tenable by students of Divinity, see pages 399 and 412.<sup>1</sup>

#### DATES OF EXAMINATIONS.

The following is the time-table of examination for Bursaries Nos. 1 and 3 to 7 in the above list :

Latin,	Friday, 11th Oct., 1918,	9—10.30 a.m.
Greek,	Do. do.	10.30—12 noon.
English,	Do. do.	2—3.30 p.m.
History,	Do. do.	3.30—5 p.m.
Hebrew,	Do. do.	6—7.30 p.m.
Logic,	Saturday, 12th do.	9—10.30 a.m.
Moral Philosophy,	Do. do.	10.30—12 noon.
Mathematics,	Do. do.	2—3.30 p.m.
Natural Philosophy,	Do. do.	3.30—5 p.m.

<sup>1</sup> The reference is to *Univ. Cal.* 1916-17

## SUBJECTS OF EXAMINATION.

Candidates for Bursaries Nos. 1 and 3 to 7 inclusive may select any seven out of the nine subjects in the following list.

LATIN.—Horace *Ars Poetica*; Translation from English into Latin.

GREEK.—The Gospel according to Luke.

LOGIC.—Jevons, *Elementary Lessons in Logic*.

MORAL PHILOSOPHY.—Mackenzie's *Manual of Ethics*, 4th ed., pp. 1-290.

MATHEMATICS.—Euclid, Books I., II., III. Algebra to Quadratic Equations, inclusive.

NATURAL PHILOSOPHY.—C. G. Knott's *Physics*.

ENGLISH.—The Poetical Works of Tennyson. A short essay will be prescribed.

HEBREW.—Genesis, c. i.-xxxv.

HISTORY.—Robertson's *History of Charles V.*, omitting "View of the State of Europe."

The subjects of examination for the Prize No. 8 for Session 1918-19 are as follow:—

GREEK.—Euripides, *Medea*.

DIVINITY.—Doctrine of the Person of Christ, as in H. R. Mackintosh's *Person of Christ*.

HEBREW.—Isaiah xl.-l.

CHURCH HISTORY.—History of the Church of Scotland from 1715 to 1760.

MORAL PHILOSOPHY.—Sidgwick's *Outlines of the History of Ethics*.

## ENTRY OF NAMES.

Candidates for Nos. 1 and 3 to 7 inclusive are required to give in their names to the Registrar not later than 1st October, 1918; for the Prize No. 8 to the Professor of Divinity, not later than 1st October, 1918.

## ESSAY COMPETITION.

A Prize of Five Guineas (or the equivalent of that sum in books) is offered for the best Essay on "Worship in the Church of Scotland, under its various forms of Church Government, from 1560 to 1865."

The Competition is open to all Probationers and Divinity Students of the Church of Scotland.

For further particulars apply to the Secretary, the Rev. Thos. Marjoribanks, The Manse, Colinton.

## 5.—PATRONAGE BURSARIES, 1918-19.

## A.—FACULTY OF ARTS.

Appointments to the following Bursaries in the gift of Patrons, including bodies corporate and not corporate, fall to be made at or before the opening of session 1918-19. Candidates are required to present themselves for the Arts Preliminary Examinations, and for this purpose their names must be given in to the Registrar on or before 23rd August.

*Adamson Bursary*, see page 398.<sup>1</sup>

*Dundonald Bursary*, see page 411.<sup>1 2</sup>

*Hamilton Bursary*, see page 423.<sup>1 2</sup>

## B.—FACULTY OF MEDICINE.

*Brisbane Bursary*, see p. 404.<sup>1</sup>

## C.—FACULTY OF THEOLOGY.

*Boyd and Sanders Bursary*, see p. 402.<sup>1</sup>

*Boyd and Wilson Bursary*, see p. 403.<sup>1</sup>

*Dundonald Bursary*, see p. 411.<sup>1 2</sup>

*Hamilton Bursary*, see p. 423.<sup>1 2</sup>

*Mackie Knockgerran Bursary*, see p. 442.<sup>1</sup>

*N.B.*—For information regarding the Auld Bursary and the Sharp Bursary in the gift of the Presbytery of Perth for students preparing for the ministry of the Church of Scotland, apply to the Clerk of the Presbytery of Perth.

OTHER VACANT BURSARIES (see paragraphs in alphabetical order, p. 398 onward).<sup>1</sup>

---

**Reprinted for purposes of reference only. Students who intend to take part in the Bursaries Competition of June, 1919, are advised to make application early in April for a copy of the Regulations and List of Bursaries open to competition.**

## 6.—BURSARIES COMPETITION, JUNE, 1918.

---

## SUMMARY OF REGULATIONS AND LIST OF BURSARIES OPEN TO COMPETITION.

## I.—SUMMARY OF REGULATIONS.

1. The subjects of Examination for the Open Bursaries in Arts and Science shall be:

<sup>1</sup>The reference is to *Univ. Cal.* 1916-17.

<sup>2</sup>The consideration of bursary applications during the war is at the discretion of the Trustees.

Reprinted for purposes of reference only. Students who intend to take part in the Bursaries Competition of June, 1919, are advised to make application early in April for a copy of the Regulations and List of Bursaries open to competition.

A. English; History (*British and chief episodes of European*).

B. Latin; Greek; French; German; Celtic.

C. Mathematics; Natural Philosophy (*any two of the following four to be taken: (1) Dynamics, (2) Heat, (3) Electricity, (4) Optics*); Botany (*flowering plants*); Geography (*similar to that required for the Higher Grade Leaving Certificate*); Chemistry:

Nature of Chemical Change; Mixtures, Compounds, Elements; Air and Water; Purification of Chemical Substances—Solution, Crystallization, Distillation; Oxygen, Combustion, Oxides; Symbols, Formulae, Equations; Ozone; Hydrogen; Chlorine; Hydrogen Chloride; Laws of Boyle, Dalton, Henry, Avogadro; Simple Calculations concerning laws of Gases; Equivalents, Atomic Weights, Molecular Weights; Kinetic Theory, Diffusion, Graham's Law; Vapour Density; Laws of constant, multiple and reciprocal proportions; Bromine, Iodine; Nitrogen, Ammonia, Oxides of nitrogen, Nitrous and nitric acids; Phosphorus, phosphorus pentoxide, phosphoric acids; Sulphur, sulphuretted hydrogen, sulphur dioxide and trioxide, sulphurous and sulphuric acids; Carbon, carbon monoxide and dioxide, methane, ethylene, acetylene, ethyl alcohol, acetic acid; Calcium Carbonate, oxide, hydroxide, chloride phosphate and sulphate; Acids, bases, salts; Silica, glass; Extraction of lead, copper, iron and sodium; the common oxides and salts of these metals and the chief properties of such other compounds (*e.g.* manganese dioxide, potassium bichromate, barium sulphate) as are intimately connected with the chemistry of the substances mentioned above; Specific and atomic heat; Isomorphism.

Each candidate may select any four subjects, under the condition that at least one subject is taken from Group B and at least one subject from Group C.

The same rule shall apply to Bursaries which are not awarded by open competition.

2. The maximum marks assigned to each subject shall be the same.
3. In each subject the Examination shall be conducted by means of special papers.
4. As a condition of appointment to any Bursary a candidate must pass the Preliminary Examination at a date not later than the October next subsequent to the Bursary Examination, or present a certificate of his having passed an examination accepted by the University as equivalent.

It is strongly recommended that prospective candidates should secure a full pass in the Preliminary Examination (or Leaving Certificate or other recognised equivalent) before presenting themselves for the Bursaries Competition.

5. No student who has during any term or period of the academical year attended in any Scottish University any class qualifying in his case for graduation in Arts or Science shall be eligible to compete for Bursaries of the first year in Arts or Science.

Reprinted for purposes of reference only. Students who intend to take part in the Bursaries Competition of June, 1919, are advised to make application early in April for a copy of the Regulations and List of Bursaries open to competition.

EXAMINATION TIME-TABLE.			
Date.	Subject.	Hours.	
Mon., 10 June,	English,	10 a.m.-12.30 p.m. and 2-4.30 p.m.	
Tu., 11 "	Mathematics,	"	"
Wed., 12 "	Latin,	"	"
Th., 13 "	French,	"	"
Fri., 14 "	History,	"	"
Mon., 17 "	Geography,	"	"
Tu., 18 "	Greek,	"	"
Wed., 19 "	Dynamics,	10 a.m.-12.30 p.m.	
	Heat,	2-4.30 p.m.	
Th., 20 "	Electricity,	10 a.m.-12.30 p.m.	
	Optics,	2-4.30 p.m.	
Fri., 21 "	Chemistry,	10 a.m.-12.30 p.m. and 2-4.30 p.m.	
Mon., 24 "	German,	"	"
Tu., 25 "	Celtic,	"	"
Wed., 26 "	Botany,	10 a.m.-12.30 p.m.	
	" (Practical),	2-4.30 p.m.	

#### ENTRY OF NAMES.

All candidates are required to enter their names not earlier than Wednesday, 1st May, and not later than Wednesday, 15th May. Entry Forms may be obtained from the Registrar, The University. Women candidates obtain their forms from, and return them to, the Mistress, Queen Margaret College.

*In connection with a number of the Bursaries in the following list, candidates are requested to note that they must also make application to the person or persons named before the date stated under the heading of the particular Bursary.*

## II.—LIST OF BURSARIES OPEN TO COMPETITION.

*Open Bursaries are marked \*. Bursaries for which women may compete equally with men are marked (W).*

### A.—FACULTY OF ARTS.

#### FOR STUDENTS ENTERING THE FIRST SESSION IN ARTS.

##### I. FOR SPECIAL DISTINCTION IN PARTICULAR SUBJECTS.

The Bursaries for special distinction are limited to Students of the first year who have passed the Arts Preliminary, and who have not gained a Bursary for general excellence.

Reprinted for purposes of reference only. Students who intend to take part in the Bursaries Competition of June, 1919, are advised to make application early in April for a copy of the Regulations and List of Bursaries open to competition.

1. (W) *Forfar Bursary*, for special distinction in Classics (Latin and Greek), annual value £38, tenable for four years.

2. *Black Bursary*, for special distinction in Mathematics, annual value £22, tenable for four years.

3. (W) *General Council Bursary*, for special distinction in Dynamics, annual value £20, tenable for three years.

4. (W) *Hastie Bursary*, for special distinction in English, annual value £27, tenable for four years.

5. (W) *John Clark (Mile-End) Bursary*, for special distinction in French, annual value £30, tenable for four years, for Protestant students, sons or daughters of Protestant parents.

6. (W) *John Clark (Mile-End) Bursary*, for special distinction in German, annual value £30, tenable for four years, for Protestant students, sons or daughters of Protestant parents.

## II. FOR GENERAL EXCELLENCE.

7. (W) *Barbour (Kilbarchan) Bursary*, annual value £25, tenable for three years, open only to candidates not exceeding 18 years of age from Kilbarchan Public School.

8. *Biggart Memorial Bursary*, annual value £25, tenable for four years, for students preparing for the Ministry of the United Free Church.

9. *Brand Bursary*, annual value £29, tenable for four years, for students preparing for the Ministry of the United Free Church.

10. *Browne (Ayrshire) Bursary*, annual value £22, tenable for four years, for natives of Ayrshire, or those who have been educated for not less than four years in Ayrshire.

11. *Buchanan (Bellfield) Bursary*, annual value £47, tenable through the whole curriculum, for students preparing for the Ministry of the Church of Scotland.

12, 13, 14, 15. (W) *Four John Clark (Mile-End) Bursaries*, annual value £30 each, tenable for four years, for Protestant students, sons or daughters of Protestant parents.

16. (W) *Archibald Craig Bursary*, annual value £9, tenable for two years, for students who are natives of Eaglesham or Mearns, or who for two consecutive years have attended school in either of these parishes.

17. *Craig Bursary*, annual value £25, tenable for four years. Apply to the Clerk of the Merchants' House, Glasgow, before 30th April.

18. *Davidson Bursary*, annual value £34, tenable for three years. Preference, *ceteris paribus*, to the Founder's relatives, and to natives of Muirkirk, Dalserf, Lesmahagow, and Loudon.

Reprinted for purposes of reference only. Students who intend to take part in the Bursaries Competition of June, 1919, are advised to make application early in April for a copy of the Regulations and List of Bursaries open to competition.

19. (W) *Denny Bursary*, annual value £30, tenable for four years, for students from Dumbarton Burgh Academy. [Tenable in any Faculty.]

20. *Duncan's Bute Bursary*, annual value £38, tenable for four years, for natives of Bute.

21. (W)\* *Forfar Bursary*, annual value, £38, tenable for four years—open.

22, 23. *Two Fullarton of Overton Bursaries*, annual value £22 each, tenable for two years, for students under 25 years of age, from the district of Cunninghame, in Ayrshire. Subjects for Examination—Latin, Mathematics, and English.

24, 25, 26, 27. (W) *Four Glasgow City Educational Endowments Bursaries*, annual value £25 each, tenable for four years, for students from public or State-aided schools in Glasgow. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, Glasgow, before 30th April.

28. *Hannay Bursary*, annual value about £15, tenable for three years, for students preparing for the Ministry of any Evangelical Religious Denomination in Scotland. Apply to Mr. William Brodie, 77 St. Vincent Street, Glasgow, before 30th April.

29, 30. (W) *Two Highland Society (Glasgow) Bursaries*, annual value £20 each, tenable for three years, for students of Highland descent. Apply to Mr. Hugh Brown, C.A., 58 St. Vincent Street, Glasgow, before 30th April. [Candidates for the Highland Society Bursaries are at liberty to take Celtic as a fifth subject of examination, but they are required to state when entering their names at the University on which 4 of their 5 subjects they stand.]

31. (W) *Hill Bursary*, annual value £20, tenable for three years, for students from public or State-aided schools under Govan School Board. Apply to Mr. Richard D. Donaldson, 155 Bath Street, Glasgow, before 30th April.

32, 33, 34, 35, 36. *Five Hutchesons' Educational Trust Bursaries*, annual value £20 each, tenable for four years, for students who have attended for at least two years immediately preceding the competition and completed the curriculum in the secondary department of Hutchesons' Grammar School. Apply to Mr. W. H. Macdonald, Hutchesons' Buildings, Ingram Street, Glasgow, before 30th April.

37, 38. (W) *Two James Laing Bursaries*, annual value £25 each, tenable for four years, for students of either sex who have been educated for at least three years in a school or schools in Stirlingshire. Apply to Messrs. A. & J. Jenkins, Solicitors, 80 Port Street, Stirling, before 30th April.

39. *Leadbetter Bursary*, annual value £9, tenable for four years. Bursar to include Latin and Greek in his University curriculum. Apply to the Town Clerk, City Chambers, Glasgow, before 30th April.

**Reprinted for purposes of reference only. Students who intend to take part in the Bursaries Competition of June, 1919, are advised to make application early in April for a copy of the Regulations and List of Bursaries open to competition.**

40. \* *Leyden Bursary*, annual value £14, tenable for three years—open.

41. *Lochhead and Mitchell Bursary*, annual value £34, tenable for four years. Preference to students of the name Mitchell or Lochhead whose parents are members of the Established Church of Scotland.

42. *M'Culloch Bursary*, annual value £18, tenable for four years for students educated not less than three years at a school or schools in Greenock.

43. (W) *Manderson Bursary*, annual value £15, tenable for three years, for students of either sex who are natives of the Lower Ward of Renfrewshire, or have been educated for three years in a school therein.

44, 45, 46, 47. (W) *Four Marshall Trust Bursaries*, annual value £30 each, tenable for four years, for students of either sex from public or State-aided schools in Lanarkshire or Stirlingshire. Apply to Mr. William Bunting, 134 Wellington Street, Glasgow, before 30th April.

48. *Merchants' House Bursary*, annual value £25, tenable for four years. Apply to the Clerk of the Merchants' House, Glasgow, before 30th April.

49. *James Paterson Bursary*, annual value £22, tenable for four years, for students preparing for the Ministry of the Baptist Church.

50. *Perthshire Society (Glasgow) Bursary*, annual value £25, tenable for three years, for students connected with the county of Perth. Apply to Mr. George Gray, 113 St. Vincent Street, Glasgow, before 30th April.

51. *Pollock Bursary*, annual value £38, tenable for three years. Preference to candidates educated in Paisley. [Candidates for this bursary should apply to the Registrar, The University, for a printed form of certificate.]

52, 53. (W) *Two Pratt Bursaries*, annual value £20 each, tenable for four years, for students from the parishes of Wiston, Robertson, or Lamington. Apply to Messrs. Fyfe, MacLean & Co., 115 St. Vincent Street, Glasgow, before 30th April. [Tenable in any Faculty.]

54. (W) \* *Sir Walter Scott Bursary*, annual value £25, tenable for four years—open.

55. (W) \* *Taylor Bursary*, annual value £10, tenable for four years—open. [Tenable in any Faculty.]

56. *Wedderburn Ogilvy Bursary*, annual value £30, tenable for three years, open to young men connected with the Parish of Persie in the County of Perth, or the Parish of Kilry in the County of Forfar, by birth, residence, or education—the period of connection required under either of the two last-mentioned qualifications being not less than two years. [Tenable also in Science or Medicine.]

**Reprinted for purposes of reference only. Students who intend to take part in the Bursaries Competition of June, 1919, are advised to make application early in April for a copy of the Regulations and List of Bursaries open to competition.**

57. *Wedderburn Ogilvy Bursary*, for proficiency in Latin and Greek, annual value £30, tenable for three years, open to young men connected with any Parish in the County of Perth by birth, residence, or education—the period of connection required under either of the two last mentioned qualifications being not less than two years. The bursar to study for the M.A. Degree under conditions stated in the *University Calendar*.

58. *William Whyte Bursary*, annual value £25, tenable for four years, open to students who have attended and completed the curriculum in the secondary department of Hutchesons' Grammar School. Apply to Messrs. Hill & Hoggan, 15 West George Street, Glasgow, before 30th April. [Tenable also in Law or Medicine.]

59. *Williams Bursary*, annual value £40, tenable for three years, for youths of South Britain who shall be designed for the Ministry. For particulars see *University Calendar*. Apply to the Secretary, Dr. Williams's Library, Gordon Square, London, W.C., before 30th April.

60, 61. (W) \* *Two King William's Bursaries*, annual value £15 each, tenable for three years—open.

#### FOR STUDENTS ENTERING THE SECOND SESSION IN ARTS.

Nos. 9, 11, 18, 20, 21, 22, 23, 37, 38, 54, 55, in the preceding list.

62. (W) \* *Park General Council*, annual value £20, tenable for two years—open.

63. (W) *Lorimer Bursary*, annual value £25, tenable for three years. Examination in Mathematics.

#### FOR STUDENTS IN ARTS WITHOUT RESTRICTION TO A PARTICULAR SESSION.

64. *Monteith Bursary*, annual value about £15, tenable for three years. Open only to natives of Scotland and sons of Scottish parents. Women students are not eligible. Examination in German.

### B.—FACULTY OF SCIENCE.

65. (W) *Lorimer Bursary in Mathematics*—see No. 63 under Faculty of Arts.

66. *Donald Cuthbertson Bursary*, annual value £35, tenable for three years, open to students entering on a curriculum for the Degree of B.Sc. in Pure Science.

67. *Strang Bursary*, annual value £20, tenable for three years. Open to students of Engineering Science.

.. Candidates for the bursaries numbered 66 and 67 are required to select their examination subjects in accordance with the rule applicable to Arts Bursaries.

**Reprinted for purposes of reference only. Students who intend to take part in the Bursaries Competition of June, 1919, are advised to make application early in April for a copy of the Regulations and List of Bursaries open to competition.**

### C.—FACULTY OF MEDICINE.

Section XIII. of University Court Ordinance No. XXVII. is as follows:

Bursaries open for competition to students entering on their first session of attendance in the Faculty of Medicine shall be tenable only by those students who have passed the Preliminary Examination in Medicine, or who have been exempted therefrom in accordance with the provisions of the Regulations for Degrees in Medicine, and who have not attended any class qualifying for graduation in Medicine: Provided always that the last-mentioned condition shall not be held to exclude a Candidate who may have attended the class of Physics, Chemistry, Botany, or Zoology, otherwise than as part of a graduation course in Medicine.

\* \* The provisions of the foregoing section do not exclude from the competition for any of the bursaries in the subjoined list a student who enters on his medical curriculum at the beginning of Summer Session, 1918.

The subjects of examination for the bursaries numbered 68, 69, are as follow: 1, English; 2, Latin; 3, Mathematics; 4, Greek or French or German.

68, 69. (W) *Two Highland Society (Glasgow) Bursaries*, annual value £25 each, tenable for five years, for students of Highland descent. Apply to Mr. Hugh Brown, C.A., 58 St. Vincent Street, Glasgow, before 30th April. [Candidates for the Highland Society Bursaries are at liberty to take Celtic as a *fifth* subject of examination, but they are required to state when entering their names at the University on which 4 of their 5 subjects they stand.]

70, 71. (W) *Two James A. Paterson Bursaries*, annual value £25 and £20 respectively, tenable for four years. Open to students entering on their first or second session of medical study. Examination in Mathematics and Dynamics.

### D.—FACULTY OF LAW.

72. *Merchants' House Bursary*, annual value £25, tenable for three years, open to students entering on their first session of attendance on the classes in the Faculty of Law. Apply to the Clerk of the Merchants' House, Glasgow, before 30th April.

73. *Major Young's Fund Bursary*, annual value £26, tenable for two years. Bursar to attend the classes of Scots Law and Conveyancing during his tenure of the bursary.

74. *Walkinshaw Young Bursary*, annual value £18, tenable for two years, for students in the Faculty of Law.

Reprinted for purposes of reference only. Students who intend to take part in the Bursaries Competition of June, 1919, are advised to make application early in April for a copy of the Regulations and List of Bursaries open to competition.

\*. Candidates for the bursaries numbered 72, 73, 74, are required to select their examination subjects in accordance with the rule applicable to Arts Bursaries.

N.B.—Certain bursaries named above under the heading "Faculty of Arts" are tenable also in other Faculties. To such bursaries appropriate notes have been added.

## 7.—SUBJECTS OF UNIVERSITY PRIZE ESSAYS.

FOR SESSION 1918-1919.

1. In Mental Philosophy, the UNIVERSITY SILVER MEDAL, for the best essay on "Modern Realism." All students of the Classes of Logic, Moral Philosophy, or English Literature, in Session 1917-18 or 1918-19, may be competitors.

2. THE EWING GOLD MEDAL, for the Best Essay on "The Treaty of Berlin, 1878." All Matriculated Students of the University in Session 1918-19 may be Competitors.

3. A COULTER PRIZE OF FIVE POUNDS, for the best essay on "The Nature and Authority of Dogma."

4. A COULTER PRIZE OF FIVE POUNDS, for the best Translation of Herodas, *Mim.* III. and IV. (Nairn's Text).

For the Coulter Prizes all matriculated students of the University in Session 1918-19 may be competitors.

5. The HENDERSON PRIZE OF TWENTY GUINEAS, for the best essay on "Modern Spiritualism and Christian Doctrine." All Matriculated Students of the University in Session 1918-19, and all Masters of Arts who graduated in November, 1913, or thereafter, may be competitors.

6. The DR. ANDREW MILLER PRIZE of the value of about £5 in books, for the best essay on "The Christian Church in Relation to Socialism." All students of Divinity in the University who intend the Ministry of the Church of Scotland and who were matriculated in Session 1917-18 may be competitors. Essays to be given in to the Clerk of Senate not later than 1st October, 1918.

7. THE DOBBIE-SMITH GOLD MEDAL, for the best description and illustration of the external characters, structure, development and processes of reproduction, with drawings and specimens, of any one of the following plants, viz.: the common mustard, the sycamore, and barley. All Matriculated Students of Session 1918-19 may be competitors. Essays to be given in to the Principal on or before 1st December, 1918.

The essays, with the exceptions noted above (Nos. 6 and 7), must be given in to the Principal on or before Monday, 28th October, 1918, after which day none can be received. Each must be distinguished by

two mottoes, and accompanied by a sealed letter bearing on the outside the same mottoes, and containing a declaration subscribed by the author that the essay is entirely of his own composition. All quotations in the essays must be carefully marked, and accurate references to their respective authorities given in the notes. The Senate reserves the power of withholding the prize for any subject, if none of the essays on that subject reaches a sufficiently high standard of merit.

GARTMORE GOLD MEDAL IN SESSION 1919-20.

The subject for the essay in the competition for the Gartmore Gold Medal, open to Matriculated Students in Session 1919-20, will be: "Democracy and Political Liberty."

### *XIII.—VACATION EXERCISES, Etc.,*

FOR 1918-19.

#### HEBREW CLASSES.

For members of the Senior Hebrew Class of 1917-18:

1. An essay on "The relation of prophet to priest in ancient Hebrew life and literature."
2. An original composition in Biblical Hebrew on a subject chosen by the student.

II. For members of the Junior Hebrew Class of 1917-18:

An essay on "The influence of Deuteronomy on the literature of the Old Testament."

Essays and compositions to be given in not later than the end of October, 1918.

#### GREEK CLASS.

Open to any Member of the Ordinary Division, Session 1917-18.

An essay on "Economic effects of slavery in Ancient Greece."

The exercises to be sent in by the end of October, 1918.

#### CLASS OF BOTANY.

HERBARIUM PRIZE. See p. 143.

*XVII.—RECENT ORDINANCE.*

UNIVERSITY COURT ORDINANCE No. XXXIX. (GLASGOW No. 12).

AFFILIATION OF THE ROYAL TECHNICAL COLLEGE,  
GLASGOW.

At Glasgow, the seventh day of November, Nineteen hundred and twelve years.

Whereas by the Universities (Scotland) Act, 1889, the Commissioners under the said Act were empowered by Section 15 to make Ordinances to extend any of the Universities by affiliating new colleges to them, subject to the conditions set forth in the said Act;

And whereas by the said Section it is enacted that after the expiration of the powers of the Commissioners the University Court of any of the Universities may make similar Ordinances, subject to the said conditions and under regulations to be laid down by the Commissioners, or after the expiry of their powers by the Scottish Universities Committee of the Privy Council;

And whereas the powers of the Commissioners expired on the first day of January, 1898, without any action having been taken by the Commissioners under the said Section for the making of Ordinances to extend the University of Glasgow, or for laying down regulations in relation thereto;

And whereas the University Court of the University of Glasgow have resolved that it is expedient to extend the University of Glasgow by affiliating to the said University the Royal Technical College, Glasgow (formerly designated the Glasgow and West of Scotland Technical College);

And whereas, in accordance with the said conditions, the University Court of the University of Glasgow and the Governors of the Royal Technical College, Glasgow, have, as consenting parties, submitted for the approval of the said Scottish Universities Committee a scheme for extending the University of Glasgow by affiliating the said College to the said University; and have agreed, by a joint minute, to appoint members of their respective bodies to form an Advisory Committee, to consider and report upon such matters affecting their joint interests as may be referred to it by the said University Court or the said Governors;

And whereas the Lords of the said Scottish Universities Committee on the eleventh day of May, 1911, by Order signified their approval of the said scheme, and laid down the following Regulations to be observed in the carrying out thereof, namely—

1. The procedure shall be by way of Ordinance, in conformity with Section 21 of the Universities (Scotland) Act, 1889.

2. Any Ordinance or Ordinances for the purpose shall be framed in general accordance with the scheme approved by the Committee.

3. Having regard to the circumstances of the case, it will not be required that the Ordinance or Ordinances shall include arrangements for the representation of the University Court on the governing body of the affiliated College, nor for the representation of the governing body of the affiliated College in the University Court;

And whereas by Section 21 of the Universities (Scotland) Act, 1889, it is enacted that, after the expiration of the powers of the Commissioners, under the said Act, the University Court of each University shall have power to make such Ordinances as they think fit, with the approval of His Majesty in Council, *inter alia* altering or revoking any of the Ordinances affecting such University which had been or might be framed and passed under the Universities (Scotland) Act, 1858, or the said Act, and making new Ordinances;

And whereas the said Commissioners issued on the third day of February, 1892, an Ordinance No. 12 (General No. 7—Regulations for Degrees in Science), which received the approval of Her late Majesty in Council on the twenty-eighth day of June, 1892; and on the ninth day of February, 1892, an Ordinance No. 13 (General No. 8—Regulations as to Examinations), which received the approval of Her late Majesty in Council on the twenty-eighth day of June, 1892; and on the eleventh day of January, 1893, an Ordinance No. 23 (Glasgow No. 2—Regulations for Degrees in Science in Engineering), which received the approval of Her late Majesty in Council on the twenty-sixth day of June, 1893; and on the eighteenth day of November, 1893, an Ordinance No. 42 (General No. 14—Institution of Boards of Studies in the Faculties of Medicine and Science), which received the approval of Her late Majesty in Council on the twenty-eighth day of May, 1894; and on the fourth day of February, 1895, an Ordinance No. 61 (General No. 23—Regulations for the Encouragement of Special Study and Research, and for the Appointment of Research Fellows), which received the approval of Her late Majesty in Council on the twenty-ninth day of June, 1895; and on the seventeenth day of July, 1895, an Ordinance No. 147 (General No. 32—Regulations with regard to Matriculated Students), which received the approval of Her late Majesty in Council on the twenty-ninth day of June, 1896;

And whereas certain other Ordinances affecting the University of Glasgow thereafter duly made and approved contain provisions referring to or otherwise supplementing the said Ordinances;

And whereas the University Court of the University of Glasgow have resolved that it is expedient that an Ordinance should be made for the affiliation to the University of the Royal Technical College, Glasgow, and that in relation to such affiliation certain of the provisions of the aforesaid Ordinances, in so far as they affect the University of Glasgow, should be revoked or altered by the substitution therefor of the provisions hereinafter set forth;

Therefore the University Court statute and ordain as follows :

I. Subject to the provisions contained in Sections 3 and 15 of the Universities (Scotland) Act, 1889, the Royal Technical College, Glasgow (hereinafter called the College), is hereby affiliated to the University of Glasgow (hereinafter called the University).

II. The University Court shall not in virtue of such affiliation be entitled to representation on the Governing Body of the College; and the Governing Body of the College shall not in virtue of such affiliation be entitled to representation on the University Court.

III. The powers of the University Court in relation to the administration and finances of the University, and the powers of the Governors of the College in relation to the administration and finances of the College, shall not in virtue of such affiliation be altered or diminished.

IV. Nothing in this Ordinance shall affect the provisions and requirements laid down in Ordinance No. 134 (Glasgow No. 33—Regulations for Degrees in Science in Agriculture), University Court Ordinance No. VI. (Glasgow No. 2—Regulations for Degrees in Science in Public Health), and University Court Ordinance No. XVI. (Glasgow No. 4—Institution of a Degree in Science in Pharmacy), except in so far as the University Court shall have otherwise determined under the provisions of Section V. subsection (1) of this Ordinance.

V. (1) It shall be competent to the University Court, after receiving from the Senatus a report by the Joint Board of Studies in Applied Science, constituted as hereinafter provided, to approve courses of instruction given during the day-time in the College (hereinafter called approved College courses) as equivalent to courses of instruction given in the University (hereinafter called University courses); and such approved College Courses shall be deemed to be courses taken in the University for the purposes of the Regulations contained in this Ordinance or in Ordinance No. 23, or of such other Regulations for Degrees in Applied Science made in pursuance of this Ordinance or of Ordinance No. 12, Section XIII., as the University Court shall determine.

(2) For the purposes of this Ordinance the words "Applied Science" shall have reference to the subjects included in the curriculum for the Degree of Bachelor of Science in Engineering, and for the Degree of Bachelor of Science in such other branches of Applied Science as the University Court shall have determined under the provisions of the foregoing subsection (1).

VI. (1) The Senatus Academicus of the University of Glasgow, in addition to what is prescribed under Ordinance No. 42, Section II., shall institute a Joint Board of Studies in Applied Science consisting of the Principal of the University, the Director of the College, the University Professors whose subjects qualify for graduation in Applied Science, and the College Professors conducting approved College courses in Applied Science, together with such University Lecturers conducting courses which qualify for graduation in Applied Science, and also such College Lecturers

conducting approved College courses in Applied Science and nominated by the Governors of the College, as the *Senatus Academicus* may from time to time appoint.

(2) The *Senatus* shall appoint one of the members of the Joint Board of Studies to be Convener thereof.

VII. Section VII. of Ordinance No. 23 shall be altered so as to read as follows :

“(1) It shall be the duty of the *Senatus* to determine from time to time the number of meetings of which a full course in any subject in Applied Science shall consist, and to report its determination to the University Court for its approval.

(2) The *Senatus*, with the approval of the University Court, may sanction half courses of not less than half the number of meetings which constitute a full course in the subject; and two half courses shall be held to be equivalent to a full course in such cases as the *Senatus*, with the approval of the University Court, may determine, and under such regulations as may from time to time be made for that purpose by the same authority.

(3) It shall be the duty of the Professors and the Lecturers conducting courses qualifying for graduation in Applied Science annually before the end of each Winter Session to submit to the Joint Board of Studies in Applied Science a scheme specifying in each case what proportion of the courses it is proposed to devote to lectures, practical demonstrations, examinations, and tutorial work respectively. It shall also be the duty of the said Professors and Lecturers annually at the end of each Winter Session to submit to the said Joint Board of Studies, for its consideration, a syllabus of the subjects and books proposed for the work of their classes during the next academical year.

(4) It shall be the duty of the Joint Board of Studies to consider these schemes and proposals, and any other matters relating to the subjects, extent, duration, hours, arrangement, and standard of the several courses proposed as qualifying for graduation in Applied Science, and to send reports thereon to the *Senatus* and to the Governors of the Royal Technical College, Glasgow. The *Senatus* shall transmit such reports, with any observations and recommendations it may think fit to make thereon, to the University Court. It shall be competent to the Governors of the College to communicate to the University Court such observations and recommendations as they may think fit to make on the reports framed by the Joint Board of Studies. The deliverance of the University Court shall be duly intimated to the *Senatus* and to the Governors of the College.”

VIII. (1) In each subject of the examinations for graduation in Applied Science the Examiners shall be the University Professor or Lecturer (if any) conducting the University course in the subject, the College Professor or Lecturer (if any) conducting the approved College course in the subject, and an Additional Examiner appointed by the University Court. The provisions of Section XIX. of Ordinance No. 13 shall not apply to the appointment of such

Additional Examiners. The Examiners in each subject shall be jointly responsible to the Senatus for the conduct of the examination in that subject.

(2) The Examiners in the subjects of the First Science Examination shall constitute the Board of Examiners for the First Science Examination, and the Examiners in the subjects of the Final Science Examination shall constitute the Board of Examiners for the Final Science Examination. The Registrar of the University shall summon the members of each Board to its first meeting. Each Board shall elect its own Convener; it shall receive the reports of the Examiners in each subject of the Examination, and shall determine all questions regarding passes and distinctions; and it shall be responsible for maintaining the general standard of the Examination, and for attesting the results to the Senatus.

(3) It shall be competent to the Board of Examiners for the Degree of Bachelor of Science in Engineering or other branch of Applied Science to report that a successful candidate has passed with special distinction in one or more of the subjects professed by him; and in such a case a diploma shall be given to the candidate setting forth the subjects in respect of which the degree has been granted, and the subject or subjects in which special distinction has been obtained.

IX. Candidates for graduation in Applied Science who attend approved College courses shall be required to pass, or obtain exemption from the Preliminary Examination prescribed under the Ordinances in force for the time being. They shall also be required to matriculate in the University at the beginning of each session in the same manner as candidates who attend University courses, and they shall have the same privileges and be subject to the same discipline and be required to pass the same examinations for graduation as matriculated students who attend University courses.

X. The fees payable for approved College courses by candidates for graduation in Applied Science shall be collected and retained by the Governors of the College, and shall not be less than the fees payable for the University courses in the same or in corresponding subjects. The fees payable by such candidates for courses given in the University, and for matriculation, examination, graduation, and registration, shall be collected and retained by the University Court.

Should inclusive fees for courses of instruction in Applied Science be instituted in the University, the inclusive fees payable at the College shall be of the same amount as those payable at the University: and provision shall be made by agreement between the University Court and the Governors of the College for the adjustment of the inclusive fees payable by candidates for graduation who attend courses both at the University and at the College.

XI. Subject to the conditions laid down in the respective Deeds of Foundation, questions relating to the tenure of bursaries, prizes, scholarships, studentships, and fellowships, tenable in the University by students of Applied Science, shall be decided by the Senatus;

but the Senatus shall have power to determine in any particular case that, for the purposes of such tenure, attendance on an approved College course shall be equivalent to attendance on a University course, and that a special course of study or research in the College shall be equivalent to the like course in the University.

XII. Section V. of Ordinance No. 23 is hereby repealed.

XIII. Section XIV. of Ordinance No. 23 shall be altered so as to read as follows :

"It shall be competent to the University Court to modify from time to time the provisions as to curriculum hereinbefore contained, in case such modification shall be rendered desirable by the development of Applied Science in relation to Engineering, or by reason of further provision having been made within or without the University for the study of any other special branch of Applied Science : Provided that in no case shall the number of full courses of study required be less than the number required for the degree of Bachelor of Science in Pure Science, as specified in Ordinance No. 12 (General No. 7—Regulations for Degrees in Science)."

XIV. In Ordinance No. 61, after the words "research in the University" shall be inserted the following : "or (in the case of the University of Glasgow) in a College affiliated thereto"; and in Ordinance No. 147, after the words "classes in the University" shall be inserted the following : "or (in the case of the University of Glasgow) on one or more approved courses in a College affiliated thereto."

XV. Until the Joint Board of Studies shall have been duly constituted as hereinbefore provided, it shall be competent to the Senatus to appoint as members thereof, for the purpose of framing reports in pursuance of Section V. of this ordinance, such College Professors and College Lecturers as at the date when this Ordinance comes into operation are Teachers recognised by the University Court for purposes of graduation in Science. The Principal of the University shall convene the first meeting of the Board.

XVI. From and after the date at which this Ordinance comes into operation, the Ordinances cited in the preamble hereof are hereby repealed as regards the University of Glasgow, in so far as they are inconsistent with this Ordinance, and any reference made in existing Ordinances applicable to the University of Glasgow to the said repealed Ordinances shall be deemed to refer to this Ordinance and the corresponding Sections and subsections thereof; provided always that a student who, at the date at which this Ordinance comes into operation, has already commenced his course of study with a view to graduation in Applied Science in the University of Glasgow, or with a view to obtaining the diploma of the College, under the regulations in force at the time in the University or in the College, may complete his course and become a candidate for graduation in Applied Science in conformity with such regulations.

XVII. This Ordinance shall come into operation on the date at which it is approved by His Majesty in Council.

[Approved, 7th March, 1913.]

Subject to any modifications that may hereafter be made.

## University of Glasgow.

SCHEME OF INCLUSIVE FEES applicable to Regular Candidates for Degrees in Arts, Pure Science, or Law, who matriculate for the first time on and after 1st October, 1912; to Regular Candidates for Degrees in Engineering Science who matriculate for the first time on and after 1st October, 1913; and to Regular Candidates for Degrees in Applied Chemistry who matriculate for the first time on and after 1st October, 1915.

### GENERAL REGULATIONS.

1. An inclusive fee for instruction shall be paid in a fixed number of annual instalments by all regular candidates for a degree in a particular faculty. A regular candidate is a candidate who matriculates, pursues his curriculum, and graduates in the usual manner.

2. The inclusive fee shall admit to a stated number of graduating courses (two half-courses counting as one course) and to certain named optional or supplementary non-graduating courses.

\* As to the Graduating Courses, see the Special Regulations and Table A *infra*. As to the Non-graduating Courses, see Table B *infra*.

3. A candidate shall not receive his degree till he has paid the inclusive fee for his curriculum.

4. A candidate who in any year desires to attend one graduating course only may be admitted thereto on payment of the normal fee\* for the course in question; but he shall not in respect of such payment be entitled to attend non-graduating courses in addition.

5. The fee paid by a candidate who in any year is admitted to attendance on a single graduating course only, or by a candidate whose attendance on any course is subsequently allowed to count for graduation, shall be credited to him as part of the inclusive fee to be paid before he receives his degree.

6. A candidate shall not be admitted to a degree examination in any year until he has paid in full the instalment of the inclusive fee payable in respect of that year and of each preceding year of his curriculum.

7. After a candidate has paid all the annual instalments of the inclusive fee, he may in subsequent years attend additional courses without further payment, provided that the total number of courses attended by him does not exceed the stated number to which the fee entitles him.

8. The fee payable for attendance on any course by non-graduating students, or by graduating students who have already attended the stated number of courses, shall be the normal fee\* for the course.

9. A candidate who has paid one or more of the annual instalments of the inclusive fee at one Scottish University, and completes his curriculum in another, shall be required to pay the remainder of the annual instalments to the latter University, and shall in respect of such payment be entitled to attend such further graduating courses therein as with those

\* See Table A.

**Subject to any modifications that may hereafter be made.**

already attended in the former University shall make up the stated number: Provided always that the amount of at least one annual instalment shall be paid to the University in which he completes his curriculum, and that before he receives his degree therein he shall present evidence that he has paid in all an amount equal to the inclusive fee.

10. A candidate who presents a certificate<sup>1</sup> that he has paid to a recognised University or Institution, or to a recognised extra-academical teacher, the full fee for attendance on a course of instruction approved as qualifying for graduation, shall be entitled to a deduction from the inclusive fee equal to the amount of the normal fee for the corresponding course given in the University; and the course of instruction so attended shall be counted as one of the stated number of graduating courses to which the inclusive fee admits him.

### *SPECIAL REGULATIONS.*

(To be read in connexion with Table A.)

#### *ARTS.*

11. Ordinary Degree.—The inclusive fee for the Ordinary M.A. Degree is 30 guineas, payable in three annual instalments of 10 guineas.

The inclusive fee admits to 10 graduating courses.

12. Honours Degree.—The inclusive fee for the Honours M.A. Degree is 40 guineas, payable in four annual instalments of 10 guineas.

The inclusive fee admits to 14 graduating courses.

13. A candidate whose attendance on two or more courses in a recognised University (other than Scottish) has been accepted by the Senatus as qualifying for graduation shall be required to pay two of the annual instalments of the inclusive fee, and shall thereby be entitled to attend such further graduating courses as with those already accepted shall make up the stated number.

#### *PURE SCIENCE.*

14. The inclusive fee for the B.Sc. Degree in Pure Science is 60 guineas, payable in three annual instalments of 20 guineas, or four annual instalments of 15 guineas.

The inclusive fee admits to 16 graduating courses.

#### *ARTS AND PURE SCIENCE.*

15. The inclusive fee for the degrees of M.A. and B.Sc. taken together is 75 guineas, payable in five annual instalments of 15 guineas.

The inclusive fee admits to 20 graduating courses.

#### *LAW.*

16. The inclusive fee for the LL.B. Degree is 30 guineas, payable in three annual instalments of 10 guineas. If the Degree of M.A. has already been taken in the University of Glasgow, the inclusive fee is 20 guineas payable in two annual instalments of 10 guineas.

The inclusive fee of 30 guineas admits to 9 graduating courses, and the inclusive fee of 20 guineas admits to 6 graduating courses.

<sup>1</sup> The certificate should be presented as soon as possible.

Subject to any modifications that may hereafter be made.

17. The inclusive fee for the B.L. Degree is 22 guineas, payable in one instalment of 8 guineas and two instalments of 7 guineas.

The inclusive fee of 22 guineas admits to 8 graduating courses.

#### *APPLIED SCIENCE (ENGINEERING OR CHEMISTRY).*

18. The inclusive fee for the B.Sc. Degree in Engineering or in Chemistry is 60 guineas, payable in three annual instalments of 20 guineas, or four annual instalments of 15 guineas.

The inclusive fee admits, in the case of Engineering, to 16 graduating courses.

The inclusive fee admits, in the case of Applied Chemistry, whether on its Chemical or its Metallurgical side, to all lecture and laboratory courses embraced in the minimum curriculum, and this rule shall have effect whether the student completes that curriculum within the normal period of four years or not. But any student who attends a particular class a second time shall pay the fee for that class in the same way as is provided by No. 8 of the General Regulations for inclusive fees.

19. A candidate who has paid one or more of the annual instalments of the inclusive fee to the University shall be entitled to a voucher admitting him to any of the graduating courses given at the Royal Technical College; and a candidate who has paid one or more of the annual instalments of the inclusive fee to the Royal Technical College shall be entitled to a voucher admitting him to any of the graduating courses given at the University; provided always that the total number of graduating courses attended by him at the University and at the College shall together not exceed the stated number to which the inclusive fee admits him.

#### *TABLE A.—GRADUATING COURSES.*

Table of Graduating Courses, showing (1) whether the course is reckoned as a Whole Course or as a Half Course for the purpose of these Regulations, and (2) the Normal Fee payable under Regulation 4 or Regulation 8.

\* \* The phrases "Whole Course" and "Half Course" as here used are to be read solely in connexion with the Inclusive Fee Regulations. Any two Half Courses may be counted as equivalent to one Whole Course.

GRADUATING COURSES.	Whole Course or Half Course (1 or $\frac{1}{2}$ ).	Normal Fee in Guineas.
Latin, Ordinary, . . . . .	1	4
Intermediate (Higher) or Roman History,	1	4
Honours, . . . . .	1	4
Greek, Ordinary, . . . . .	1	4
Intermediate (Higher) or Greek History,		
or Hellenistic Greek, . . . . .	1	4
Honours, . . . . .	1	4

Subject to any modifications that may hereafter be made.

GRADUATING COURSES.	Whole Course or Half Course (1 or $\frac{1}{2}$ ).	Normal Fee in Guineas.
English, Ordinary, . . . . .	1	4
Intermediate, . . . . .	1	4
Honours (Lit. and Lang.), . . . . .	1	4
English Language, . . . . .	$\frac{1}{2}$	2
British History, Honours, . . . . .	1	4
French, Ordinary, . . . . .	1	4
Intermediate (Higher), . . . . .	1	4
Honours, . . . . .	1	4
German, Ordinary, . . . . .	1	4
Intermediate (Higher), . . . . .	1	4
Honours, . . . . .	1	4
English Language, Honours or Higher Ord.,	1	4
Italian, Ordinary, . . . . .	1	4
Higher, . . . . .	1	4
Honours, . . . . .	1	4
„ for English, . . . . .	1	4
Hebrew, Ordinary (Senior Class), . . . . .	1	4
Higher, . . . . .	1	4
Honours (Two [or Three] Terms), . . . . .	1	4
Arabic, Half Course (Ordinary or Inter- mediate or Honours), . . . . .	$\frac{1}{2}$	2
Celtic, Ordinary, . . . . .	1	4
Intermediate (Higher), . . . . .	1	4
Honours, . . . . .	1	4
Russian, . . . . .	1	4
Logic and Metaphysics, Ordinary, . . . . .	1	4
Higher Ordinary, . . . . .	1	4
Honours, . . . . .	1	4
Experimental Psychology, . . . . .	1	4
Moral Philosophy, Ordinary, . . . . .	1	4
Intermediate (Higher), . . . . .	1	4
Honours, . . . . .	1	4
Political Economy, Ordinary, . . . . .	1	4
Honours, . . . . .	1	4
Political Philosophy and Social Economics, Education, . . . . .	1	5 4
History, Ordinary, . . . . .	1	4
Higher Ordinary, . . . . .	1	4
Honours, . . . . .	1	4
Ecclesiastical (Senior Class), . . . . .	1	4
Constitutional Law and History, Ordinary, .	1	4
Higher, . . . . .	1	4
Honours, . . . . .	1	4
Roman or Civil Law, . . . . .	1	4
Scottish History and Literature, Ordinary, .	1	4
Higher Ordinary, . . . . .	1	4
Honours, . . . . .	1	4

Subject to any modifications that may hereafter be made.

GRADUATING COURSES.	Whole Course or Half Course (1 or $\frac{1}{2}$ ).	Normal Fee in Guineas.
Mathematics, Ordinary, . . . . .	1	4
Higher Ordinary, . . . . .	1	4
Mathematics, Honours (Intermediate), . . . . .	1	4
Honours (Advanced), . . . . .	1	4
First Course for Engineers, . . . . .	1	4
Second Course for Engineers, . . . . .	1	4
Natural Philosophy, Ordinary, . . . . .	1	4
Higher Class C, . . . . .	1	4
Higher Class A, . . . . .	1	4
Higher Class B (for Engineers), . . . . .	1	4
Physical Laboratory (10 hours weekly)—One Term, . . . . .	1	4
Physical Laboratory (6 hours weekly)—One Term, . . . . .	$\frac{1}{2}$	3
Electricity, Pure and Applied, . . . . .	1	3
Astronomy, Class A, . . . . .	$\frac{1}{2}$	2
Class B, . . . . .	$\frac{1}{2}$	2
Geography, . . . . .	1	4
Advanced, . . . . .	1	4
Geology, Part I. (For Arts or Pure Science), . . . . .	1	5
Part II. (For Pure Science), . . . . .	1	5
Part I. with Practical (For Mining), . . . . .	1	5
Part II. (For Mining), . . . . .	1	2
(For Engineering or Applied Chemistry), . . . . .	1	4
Engineering I. and III. (for Applied Chemistry), . . . . .	1 or $\frac{1}{2}$	4 or 2
Engineering, Class I., . . . . .	$\frac{1}{2}$	2
Class II., . . . . .	$\frac{1}{2}$	2
Class III., . . . . .	$\frac{1}{2}$	2
Class IV., . . . . .	1	4
Drawing and Design (First Session), . . . . .	1	4
Drawing and Design (Second Session), . . . . .	1	3
Laboratory (First Session), . . . . .	1	10
Laboratory (Second Session), . . . . .	1	5
Laboratory, Special (Mechanical or Electrical), . . . . .	1	3
Electrical Engineering, Class I., . . . . .	$\frac{1}{2}$	2
Class II., . . . . .	$\frac{1}{2}$	2
Mining, Class I., . . . . .	$\frac{1}{2}$	2
Class II., . . . . .	$\frac{1}{2}$	2
Class III., . . . . .	$\frac{1}{2}$	1
Class IV. (Practical), . . . . .	1	1
Naval Architecture Lectures, Junior, . . . . .	1	3
Lectures, Senior, . . . . .	1	3
Drawing, Junior, . . . . .	1	3
Drawing, Senior, . . . . .	1	3

Subject to any modifications that may hereafter be made.

GRADUATING COURSES.	Whole Course or Half Course (1 or $\frac{1}{2}$ ).	Normal Fee in Guineas.
Chemistry (For Arts and Pure Science), . . .	1	4
(For Applied Chemistry, Engineering, Mining, or Naval Arch.), . . .	1	4
Chemistry, Laboratory (Elementary or Ad- vanced)—One Term, or Equivalent Attendance during Two Terms, . . .	1	5
Organic Chemistry, . . . . .	$\frac{1}{2}$	3
Physical Chemistry, . . . . .	$\frac{1}{2}$	3
Inorganic Chemistry (Subsidiary), . . .	$\frac{1}{2}$	3
(Advanced), . . . . .	$\frac{1}{2}$	3
Metallurgical Chemistry, Class A, . . .	$\frac{1}{2}$	2
Class B, . . . . .	$\frac{1}{2}$	2
Laboratory—Winter or Summer, . . .	1	5
Botany—First Half Course (with Laboratory), .	1	4
Second Half Course (with Laboratory), .	1	3
Botany—Advanced—Winter or Summer, .	1	3
Laboratory, Advanced—Winter or Summer, . . . . .	1	3
Zoology, . . . . .	1	4
Laboratory, . . . . .	1	3
Spring Course or Summer Course, . . .	1	3
Anatomy, First Course, . . . . .	1	2
Second Course, . . . . .	1	2
Practical—One Term, . . . . .	1	3
Physical Anthropology, . . . . .	$\frac{1}{2}$	1
Embryology, . . . . .	1	2
Laboratory—Winter or Summer, . . .	1	3
Physiology, . . . . .	1	4
Practical (Histology)—Elem. or Adv., . .	$\frac{1}{2}$	} Elem. 4 Adv. 2 for each term.
Practical (General)—Elem. or Adv., . .	$\frac{1}{2}$	
Practical (Chemical)—Elem. or Adv., . .	$\frac{1}{2}$	
Psychology, . . . . .	1	4
Scots Law, . . . . .	1	4
Conveyancing, . . . . .	1	4
Civil or Roman Law, . . . . .	1	4
Constitutional Law and History, . . .	1	4
Political Economy, . . . . .	1	4
Mercantile Law, . . . . .	1	4
Public International Law, . . . . .	1	3
International Private Law, . . . . .	1	3
Jurisprudence, . . . . .	1	3
Forensic Medicine, . . . . .	1	4
Evidence and Procedure, . . . . .	1	3

Subject to any modifications that may hereafter be made.

TABLE B.—NON-GRADUATING COURSES.

Students who have obtained a Class Ticket for a Graduating Course in any of the Subjects named in the right-hand column will be admitted to the course named opposite to it in the left-hand column. The number of courses to which a student may seek admission under this rule, in addition to the full complement of graduating courses attached to his Inclusive Fee, must not exceed three.

TITLE OF COURSE.	SUBJECTS.
Latin Prose, . . . . .	Latin.
Roman Britain, . . . . .	Latin.
Greek Prose, . . . . .	Greek.
French, Ordinary—Lang. or Lit. Section alone, . . . . .	French.
German, Ordinary—Lang. or Lit. Section alone, . . . . .	German.
Italian, Ordinary—Lang. or Lit. Section alone, . . . . .	Italian.
Italian, Elementary, . . . . .	Latin or Greek or French or German.
Arabic, Elementary, . . . . .	Hebrew.*
Syriac, . . . . .	Hebrew.*
Comparative Semitic Philology and Aramaic, . . . . .	Hebrew.
Psychology, Advanced, . . . . .	Experimental Psychology.
Political Philosophy— <i>Honours Students only</i> , . . . . .	Moral Phil. or Polit. Econ. or History.
Social Economics— <i>Honours Students only</i> , . . . . .	Moral Phil. or Polit. Econ. or History.
Economic History, . . . . .	Political Economy or History.
Practical Geology, . . . . .	Geology, Part I. or Part II.
Metallography, . . . . .	Metallurgical Chemistry.
Radio-activity, . . . . .	Physical Chemistry.*
Physiological Chemistry (Grieve Lecture-ship), . . . . .	Adv. Pract. Physiology.*

\* In each of these four cases students are at liberty to attend concurrently the course named in the left-hand column.

## LIST OF MEMBERS

OF THE

GENERAL COUNCIL OF THE UNIVERSITY OF GLASGOW

*FOR THE YEAR COMMENCING 1st JANUARY, 1915\**

"4 Sessions" implies that the Member has been admitted under either Act 21 and 22 Vict., cap. 83, § 6, or Act 31 and 32 Vict., cap. 48, § 23.

Copies of the Register, containing the designations, addresses, etc., of Members of the Council, may be had from the Registrar, price 6d. each, or post free 10d.

---

\* By the provisions of the Elections and Registration Act, 1915, the reprinting of the General Council Register at the close of that year was suspended. The list of members will be found in the *University Calendar*, 1915-16.

## INDEX.

- Academical Year, 238, 346  
 Advisers of Studies, 25  
 Agricultural College (West of Scotland), 324  
 Agriculture—*see Degrees in Science*  
 Anatomy, Course in, 145  
 —, B.Sc. Degree Subjects, 295  
 Anthropology, Physical, 147  
 Apologetics, Degree Subjects, 382, 385  
 Appointments Committee, 82, 59  
 Arabic Language and Literature, Course in, 192  
 —, Degree Subjects, 277  
 Aramaic—*see Hebrew*  
 Arnott and Thomson Demonstratorship, 197  
 Arts, Faculty of, 48, 66, 86  
 —, Degree in—*see Degrees*  
 —, Preliminary Examinations in, 238  
 Assessors, 20, 43  
 Assistants, University, 25, 50  
 Astronomy, Course in, 121  
 —, Degree Subjects, 269, 279, 293
- Bacteriology, 152, 154  
 Baxter Demonstratorship in Geology, 200  
 Biblical Criticism—*see Divinity and Biblical Criticism*  
 Biology, Marine, 234  
 Blackstone Medals—*see Prizes*  
 Boards of Studies, 24, 49, 255  
 Botanic Garden, 234  
 Botany, Course in, 141  
 —, B.Sc. Degree Subjects, 296  
 —, M.A. Degree Subjects, 270  
 —, Vacation Exercises, 416  
 British History, Course in, 118  
 Bursaries, Auld and Sharp, 407  
 Bursaries, etc.—University Court Ordinance No. XXVII., 391  
 Bursaries according to Faculties, 395  
 Bursaries, etc., open to competition, 1918-19, 401-406  
 Bursaries Competition, June 1918, 407  
 Bursaries, Patronage, 407  
 Bursaries for Women, 394
- Caird (Edward) Lectureship, 106  
 Calendar, University, 9-19  
 Carnegie Essay Prize, 228  
 Carnegie Fellowships, 218  
 Carnegie Scholarships, 214  
 — Grants in Aid of Research, 222  
 — Trust, 32, 209  
 — Assistance in Payment of Class Fees, 212  
 Celtic, Course in, 100  
 —, Degree Subjects, 267, 277  
 Certificate of Proficiency in Arts, 264  
 Chancellor, 20, 41  
 Chapel, 57  
 Chemistry, Course in, 139  
 —, B.Sc. Degree Subjects, 293  
 —, M.A. Degree Subjects, 270  
 Chemistry, Inorganic (Advanced)—*see Physico-chemical Chemistry*  
 Chemistry, Metallurgical—*see Metallurgical Chemistry*  
 Chemistry, Organic—*see Organic Chemistry*  
 Chemistry, Physical—*see Physical Chemistry*  
 Chemistry, Physiological—*see Physiological Chemistry*  
 Children, Sick, Royal Hospital for, 83  
 Church History—*see Ecclesiastical History*  
 Church Law, 188  
 Civil Engineering and Mechanics, Course in, 128  
 Civil Law—*see Law, Civil*  
 Civil Service, Training for, 59  
 Classes, List of, 66  
 Classes, Separate Faculties and, 66  
 Cognate Subjects (Arts), 249  
 — (Science), 290  
 Committees, 32  
 Constitutional Law—*see Law*  
 Conveyancing, Course in, 176  
 —, Degree Subjects, 378
- Dean of Faculties, 20, 42  
 Deans of the Faculties, 22  
 Degrees in Arts (M.A.), *Regulations*, 238  
 — in Arts, Subjects of Examination for, 258-279  
 — in Arts, Table of Examinations for M.A., 280-286  
 Degrees in Divinity (B.D.), *Regulations*, 381  
 —, Table of Examinations for B.D., 384  
 — (U.D.), *Regulations*, 387  
 — in Law (LL.B. and B.L.), *Regulations*, 371  
 —, Table of Examinations for, 380  
 — (LL.D.), *Regulations*, 388

- Degrees in Medicine and Surgery, *Regulations*, 345  
 —, Table of Examinations for, 362  
 — in Science (B.Sc.), *Regulations*, 287, 297, 310, 323, 328, 333  
 Degrees in Science (D.Sc.), *Regulations*, 292, 305, 331, 341  
 — in Science, Tables of Examinations for  
   B.Sc., Pure Science, 298, 299  
   — — — Engineering, 308, 309  
   — — — Applied Chemistry, 319, 320, 321, 322  
   — — — Agriculture, 327  
   — — — Public Health, 332  
 Degrees, Higher, 341  
   —, Honorary, 387  
 Demonstrators, 25, 50  
 Demonstratorships, 197  
 Dermatology, McCall Anderson Memorial  
   Lectureship in, 170  
 Dermatology (Royal Infirmary), 170  
 Distinctions in Medicine, 370  
 Divinity, Course in, 188  
   —, Degree Subjects, 385, 386  
   —, Degrees in—*see Degrees*  
   —, Faculty of—*see Theology*  
 Divinity and Biblical Criticism, Course in, 196  
   —, Degree Subjects, 386, 387  
 Divinity Hall, Course of Attendance at, 183  
 Dixon—*see Mining*  
 Dress, Academic, 388
- Ear, Diseases of the, 166, 167  
 Ecclesiastical History, Course in, 193  
   —, Degree Subjects, 385, 386  
 Economic History, 108  
 Education, Course in, 108  
   —, Degree Subjects, 269  
   —, Degree in, 336  
 Electrical Diagnosis and Therapeutics, 171  
 Electrical Engineering, Course in, 131  
 Electricity, Pure and Applied, 114  
 Elocution, Teachers of, 187  
 Embryology, 146  
 Engineering Science, Certificates in, 307  
 Engineering, Degrees in, 297  
 English Language and Literature, Course in, 92  
 English Language and Literature, Degree  
   Subjects, 262, 273  
 Evidence and Procedure, 182  
   —, Degree Subjects, 379  
 Evolution, 144  
 Examination Papers, 8  
 Examiners for Degrees, 27, 50, 235, 365  
 Examiners, Preliminary, 29, 235  
 Exegesis, New Testament, Degree Subjects, 382, 383  
 Exhibitions—*see under Scholarships*  
 External Examinations, etc., 32, 59  
 Eye—*see Ophthalmology*
- Faculties, 49, 86  
 Faculties and Classes, Separate, 66
- Fees, Class, 66  
 —, Enrolment, 63  
 —, Entrance, 63  
 —, Examination and Graduation, 63  
 —, Inclusive, 423  
 —, Library, 64  
 —, Matriculation, 63  
 —, Registration, 65  
 Fellowships—*see under Scholarships*  
 Fevers, 85, 166  
 Forensic Medicine, Course in, 154, 177  
   —, Degree Subjects, 379  
 French, Course in, 95  
   —, Degree Subjects, 263, 274
- General Council, 51, 430  
 Geography, Course in, 116  
   —, Degree Subjects, 271, 297  
 Geology, Course in, 127  
   —, Degree Subjects, 270, 295  
 German, Course in, 97  
   —, Degree Subjects, 264, 275  
 Gifford Lectureship, 202  
 Glasgow Royal Technical College, 297, 306, 315  
 Gown, Academic—*see Dress*  
 Graduation in the several Faculties, 235  
   —, Ceremony of, 390  
 Graham Young Lectureship, 205  
 Greek, Course in, 88  
   —, Degree Subjects, 260, 272  
 Greek, Vacation Exercises, 416  
   —, Hellenistic, 90  
   —, Degree Subjects, 261  
   —, Non-qualifying, 91  
   —, History, Course in, 91  
   —, Degree Subjects, 261  
 Grieve Lectureship, 149, 198  
 Gymnasium, 57  
 Gynaecology—*see Women, Diseases of*
- Hastie Lectureship, 205  
 Hebrew and Semitic Languages, Course in, 190  
 Hebrew and Semitic Languages, Degree  
   Subjects for M.A., 266, 276  
   —, — for B.D., 382, 383  
   —, Vacation Exercises, 416  
 Herbarium, 142  
 Herbarium Prize, 143  
 Heredity, 144  
 Higher Degrees, 341  
 History, Course in, 117  
   —, Degree Subjects in, 271, 279  
 History and Law, Department of, 117  
 History, Ecclesiastical—*see Ecclesiastical History*  
 History, Economic—*see Economic History*  
 Honours Groups, 253  
 Honyman Gillespie Lectureship, 127  
 Hooda—*see Dress*  
 Hospital, Royal, for Sick Children, 83  
 Humanity, Course in, 86  
   —, Degree Subjects, 258, 259, 272  
 Hunterian Museum, 232  
   —, Donations to, 233

- Inclusive Fees, 423  
 India Civil Service—*see Civil Service*  
 Infirmary, Eye, 85  
 —, Royal, 81  
 —, Western, 79  
 Insanity, 164  
 Italian, Course in, 98  
 —, Degree Subjects, 265, 276  
  
 Joint Board of Examiners, 235  
 Jurisprudence, Course in, 179  
 —, Degree Subjects in, 379  
  
 Language and Literature, Department of, 86  
 Latin—*see Humanity*  
 Law, Degrees in—*see Degrees*  
 —, Faculty of, 48, 78, 171  
 Law, Civil, Course in, 177  
 —, —, Degree Subjects, 271, 378  
 Law, Constitutional, and History, Course in, 119, 178  
 —, —, Degree Subjects, 271, 379  
 —, —, International Private, 181  
 —, —, Degree Subjects, 379  
 —, Mercantile, Course in, 182  
 —, —, Degree Subjects, 379  
 —, —, Public International, Course in, 180  
 —, —, Degree Subjects, 379  
 —, Roman—*see Law, Civil*  
 —, Scots, Course in, 175  
 —, —, Degree Subjects, 378  
 Lecturers, 22, 49  
 Letters, Doctor of—*see Higher Degrees*  
 Library, Divinity Hall, 232  
 Library, University, *Regulations*, 227  
 —, —, Catalogues, 230  
 —, —, Committee, 32  
 Logic and Rhetoric, Course in, 103  
 Logic and Rhetoric, Degree Subjects, 267, 277  
 Lord Provost, 20  
  
 M'Callum-Fleming Celtic Lectureship—*see Celtic*  
 Marine Engineering—*see Naval Architecture*  
 Materia Medica, Course in, 150  
 Mathematics, Course in, 109  
 —, Degree Subjects, 269, 278  
 Mechanics—*see Civil Engineering*  
 Medals—*see Prizes*  
 Medical Students, Registration of, 346  
 Medical Study, Order of, 136  
 Medicine, Faculty of, 48, 73, 136  
 Medicine, Graduation in—*see Degrees*  
 Medicine, Institutes of—*see Physiology*  
 —, Practice of, Course in, 160  
 —, Course in (Muirhead Chair), 161  
 Mental Philosophy, Department of, 103  
 Mercantile Law—*see Law, Mercantile*  
 Metallurgical Chemistry, Course in, 124  
 Metaphysics—*see Logic*  
 Midwifery, Course in, 163  
 — (Muirhead Chair)—*see Obstetrics*  
  
 Mining Engineering, Degree of B.Sc. in, 302  
 Mining, Course in, 134  
 Moral Philosophy, Course in, 105  
 —, Degree Subjects, 268, 278  
 Muirhead Demonstratorship of Physiology, 197  
 Museum, Hunterian, 232  
 —, —, Donations to, 233  
 Museums Committee, 32  
  
 Nations, Matriculated Students divided into, 41  
 Natural History—*see Zoology*  
 Natural Philosophy, Course in, 111  
 —, Degree Subjects, 269, 279, 293  
 Natural Theology—*see Gifford Lectureship*  
 Naval Architecture and Marine Engineering, Course in, 135  
 Nose—*see Throat*  
  
 Oath at Medical Graduation, 371  
 Observatory, 122  
 Observatory and Laboratories Committee, 32  
 Obstetrics and Gynaecology (Muirhead Chair), 163  
 Officers Training Corps, 33  
 Officers, University, 20  
 Ophthalmic Institution, 85  
 Ophthalmology, 166  
 Order of Medical Study—*see Medical Study*  
 Order of Study in Theology, 183  
 Ordinance, Recent:  
     Affiliation of Royal Technical College, 417  
 Organic Chemistry, Course in, 123  
  
 Parliament, Representative in, 20, 53  
 Pastoral Theology, 187  
 Pathology, Course in, 151  
 —, Course in (St. Mungo Chair), 153  
 —, Clinical, 152  
 Persian, 192  
 Pharmacy—*see Materia Medica*  
 Philosophy, Doctor of—*see Higher Degrees*  
 Philosophy, Moral—*see Moral Philosophy*  
 Philosophy, Natural—*see Natural Philosophy*  
 Philosophy, Political—*see Political Philosophy*  
 Physical Chemistry, Course in, 125  
 Physical Laboratory, 114  
 Physics, Course in, 115  
 Physiological Chemistry, 149  
 Physiology, Course in, 147  
 —, B.Sc. Degree Subjects, 295  
 Political Economy, Course in, 106  
 —, Degree Subjects, 268, 278  
 Political Philosophy, 106  
 Pollok, Dr. Robert, Lectureship, 199  
 Preliminary Examinations in Arts and Science, 238, 287, 297, 311, 323, 333  
 —, Table of Examinations, 245  
 Preliminary Examination in Medicine, 245, 346  
 Principal, 20, 43  
 Prizes, 400  
 —, University, for 1918-1919, 415

- Professors, 20  
 Protozoology, 144  
 Psychological Medicine, 164, 165  
 Psychology, 104, 150  
 Public Health—*see Forensic Medicine*  
 ———, Degrees in Science in, 323  
 Public Law—*see Law, Public*  
 Pure Science, Degrees in, 287
- Queen Margaret College, 29, 65
- Radio-activity—*see Physical Chemistry*  
 Reading Room, 231  
 Rector, 20, 41  
 Registration of Medical Students, 346  
 — of Medical Practitioners, 371  
 Representatives of General Council, 31  
 Representatives of Senate, 31  
 Representatives of University Court, 30  
 Research Students, 208  
 Research Work, 115, 206  
 Rhetoric—*see Logic and Rhetoric*  
 Robertson (Alexander) Lectureship, 203  
 Roman History, Course in, 88  
 —, Degree Subjects, 259  
 Roman Law—*see Law, Civil*  
 Russian, Course in, 102
- Scholarships, etc.—University Court Ordinance No. XXVII., 391  
 Scholarships, etc., 399  
 Scholarships, etc., open to competition, 1918-19, 401-406  
 Science, Degrees in, 287  
 —, Department of, 109  
 —, Doctor of—*see Higher Degrees*  
 —, Faculty of, 48, 69, 121  
 —, Preliminary Examination in—*see Preliminary*  
 Scottish History and Literature, Course in, 119  
 —, Degree Subjects, 271  
 Semitic Languages—*see Hebrew*  
 Senatus Academicus, 20, 47
- Skin, Diseases of the—*see Dermatology*  
 Smith (Adam) Chair, 106  
 Social Economics, 107  
 Special Teaching and Study by Scholars and Fellows, 208  
 Students, 55  
 Students' Representative Council, 32, 53  
 Studies—*See Boards and Advisers*  
 Surgery, Course in, 157  
 —, Course in (St. Mungo Chair), 158  
 —, Graduation in—*see Degrees*  
 Syriac—*see Hebrew*
- Teachers, Training of, 32  
 Theology, Faculty of, 48, 78, 183  
 Therapeutics—*see Materia Medica*  
 Throat and Nose, Diseases of the, 168, 169
- University, The, 35  
 University Assistants, 25, 50  
 University Buildings, 37  
 — Chapel, 57  
 — Court, 20, 43  
 University Fees, 63  
 University, Government of the, 39  
 — Officers, 20
- Vacation Exercises, 416  
 Venereal Diseases, 170  
 Vice-Chancellor, 20
- Waltonian Lectureship, 201  
 Weir, William, Assistantship, 199  
 Women, Bursaries for, 394  
 Women, Diseases of, 163, 164  
 Women's Department, 65
- Young Assistantship, 50
- Zoology, Course in, 143  
 —, Degree Subjects, 270, 296

# MICROSCOPES & ACCESSORIES

## WATSON'S

are all *British Made* Goods.  
And nothing but the finest  
quality of materials used in  
their manufacture.

DESCRIPTIVE CATALOGUE  
FREE ON APPLICATION.

**W. W. SCOTT & CO., LTD.,**

Ophthalmic Opticians

**180 SAUCHIEHALL STREET  
GLASGOW**



SOLE AGENTS FOR  
W. WATSON & SON, LTD., LONDON

# The Scottish Tutorial Institute

402 SAUCHIEHALL STREET

Telephone: 844 Douglas

## *Principals:*

J. GORDON LAING, M.A. Hons. (Aber.); M.A. Hons. (Edin.)  
First-Class Honours in Classics

GEORGE W. JONES, M.A. Hons., B.Sc., LL.B., F.R.S.E.  
First-Class Honours in Mathematics

*The Institute specialises in University Work—  
Prelim., Bursary and Degree*

N.B.—Rapid and efficient preparation for Medical Prelim.

PROSPECTUS ON APPLICATION

## Uniform Edition of Principal Caird's Works.

### The Fundamental Ideas of Christianity.

Being the Gifford Lectures delivered to the University of Glasgow. By PRINCIPAL CAIRD. With a Memoir by EDWARD CAIRD, D.C.L., LL.D., late Master of Balliol. 2 vols. *Fifth Thousand. With new Portrait.* Post 8vo. 9s. net.

### An Introduction to the Philosophy of Religion.

*Seventh Thousand.* 4s. 6d. net.

## Works by Edward Caird, D.C.L., late Master of Balliol.

### The Critical Philosophy of Immanuel Kant.

By EDWARD CAIRD, M.A., LL.D., late Master of Balliol College, Oxford, and Professor of Moral Philosophy in the University of Glasgow. 2 vols. Demy 8vo. New Edition. 25s. net.

### Lay Sermons and Addresses.

Delivered in Balliol Hall. Second Edition. Post 8vo. 6s. net.

### The Evolution of Theology in the Greek Philosophers.

Being the Gifford Lectures delivered in the University of Glasgow. 2 vols. Post 8vo. 14s. net.

### The Social Philosophy and Religion of Comte.

Second Edition. Post 8vo. 5s. net.

### Essays on Literature.

Second Edition. Post 8vo. 5s. net.

James MacLehose and Sons

Publishers to the University of Glasgow

London, New York and Toronto: Macmillan and Co., Ltd.

# SOME MEDICAL BOOKS.

- BARR**—Manual of Diseases of the Ear, for the Use of Practitioners and Students of Medicine. By Thomas Barr, M.D., Lecturer on Aural Surgery in the University of Glasgow, and J. Stoddart Barr, M.B. Fourth Edition, enlarged. Medium 8vo. 14s. net.
- BARR**—Guide to the Examination of the Ear and Hearing. For the Use of Students. By Thomas Barr, M.D., and J. Stoddart Barr, M.B., Ch.B. Demy 8vo. 2s. 6d. net.
- BRYCE and TEACHER**—Contributions to the Study of the Early Development and Imbedding of the Human Ovum. I. An Early Ovum imbedded in the Decidua. By Thomas H. Bryce, M.A., M.D., and John H. Teacher, M.A., M.D. II. An early Ovarian Pregnancy. By Thomas H. Bryce, John H. Teacher, and John M. Munro Kerr, M.B. One volume, 4to, with numerous Plates, many of which are coloured. 12s. 6d. net.
- CAMERON**—On the Evolution of Wound-Treatment during the last Forty Years. By Sir Hector C. Cameron, Professor of Clinical Surgery in the University of Glasgow. Crown 8vo. 3s. 6d. net.
- CLELAND and MACKAY**—Human Anatomy. By John Cleland, M.D., F.R.S., and John Yule Mackay, M.D. Illustrated. Medium 8vo. 28s. net.
- CLELAND and MACKAY**—A Directory for the Dissection of the Human Body. Fcap. 8vo. 3s. 6d. net.
- DOWNIE**—Clinical Manual for the Study of Diseases of the Throat. By J. Walker Downie, M.B. Second Edition, revised and enlarged, with 104 Illustrations. Post 8vo. 6s. net.
- GEMMILL**—The Teratology of Fishes. By James F. Gemmill, M.A., M.D., D.Sc., Lecturer in Embryology, Glasgow University, and in Zoology, Glasgow Provincial Training College. Royal 4to, with very many illustrations. 15s. net.
- MACEWEN**—The Growth of Bone. Observations on Osteogenesis; an Experimental Inquiry into the Development and Reproduction of Diaphyseal Bone. By Sir William Macewen, M.D., F.R.S. Demy 8vo, with many Plates. 10s. net.
- MACEWEN**—Atlas of Head Sections. 53 Engraved Copper Plates of Frozen Sections of the Head, with 53 Key Plates with Detailed Descriptions and Illustrative Text. Demy 4to. 70s. net.
- MARSHALL**—A Manual of Midwifery for Students and Practitioners. By G. Balfour Marshall, M.D., C.M., F.R.F.P.S.G., Senior Gynaecologist, Royal Infirmary, Glasgow. With 9 Coloured Plates and 125 Illustrations in the Text. Demy 8vo. 14s. net.
- RAMSAY**—Eye Injuries and their Treatment. 25 full-page Plates in Colour and Photogravure, with full Descriptive Text. By A. Maitland Ramsay, M.D. Royal 8vo. 10s. 6d. net.

James MacLehose and Sons

Publishers to the University of Glasgow

London, New York and Toronto: Macmillan and Co., Ltd.

By SIR HENRY JONES.

**Idealism as a Practical Creed.** Being the Lectures on Philosophy and Modern Life delivered before the University of Sydney. By HENRY JONES, M.A., LL.D., D.Litt., F.B.A., Professor of Moral Philosophy in the University of Glasgow. Crown 8vo. Second Edition. 6s. net.

"He is always lucid; he is always candid. While he is stimulating, he is also persuasive."—*Spectator*.

**Browning as a Philosophical and Religious Teacher.** Crown 8vo. Sixth Edition. 4s. 6d. net.

---

By PROFESSOR JOHN WATSON.

**The Interpretation of Religious Experience.** Being the Gifford Lectures, delivered in the University of Glasgow, 1911-1912. By JOHN WATSON, LL.D., Professor of Moral Philosophy in the University of Queen's College, Kingston. 2 vols. Volume I., being part first, Historical. Volume II., being part second, Constructive. Extra Post 8vo. 10s. net each volume.

**An Outline of Philosophy.** Fourth Edition, revised and greatly enlarged. Crown 8vo. 7s. 6d. net.

**The Philosophy of Kant.** As contained in Extracts from his own Writings. Selected and Translated by JOHN WATSON, LL.D. Sixth Edition. Crown 8vo. 7s. 6d.

**The Philosophy of Kant Explained.** Post 8vo. 10s. net.

James MacLehose and Sons

Publishers to the University of Glasgow

London, New York and Toronto: Macmillan and Co., Ltd.

**FOR STUDENTS.**  
**TEXT BOOKS and NOTE BOOKS**  
**AT THE CHEAPEST PRICES.**

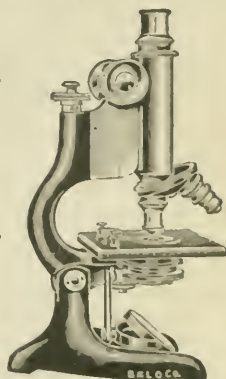
**STUDENTS' REQUISITES**  
for Anatomy, Botany, Zoology Classes, etc.,  
of correct authorised patterns.

**SCALPELS AND RAZORS**  
Sharpened on the premises.

**MATHEMATICAL INSTRUMENTS**  
and **DRAWING MATERIALS.**

**A. STENHOUSE**

**40-42 UNIVERSITY AVENUE, HILLHEAD, GLASGOW.**  
*(Opposite the College Gate.)*



**Dr. Shiels Phoslac Milk Saline.**

**Relieves the distressing symptoms arising  
from imperfect digestion of food.**

It is not a digestive agent in itself, but restores the normal quality and quantity of Digestive Fluids, and prevents all the troubles that arise from imperfectly digested foods, such as

**Acidity, Flatulence, Fermentation, Pain and Distension  
of the Stomach.**

Per Bottle, 1s. and 2s.; post free, 6d. extra.

**G. MACKIE, CHEMIST,**  
**THE REXALL PHARMACY,**  
**73 RENFIELD STREET, GLASGOW.**

Telephone Douglas 1541.

## **MOURNING JEWELLERY**

THE LARGEST AND FINEST STOCK OF

## **REAL WHITBY JET JEWELLERY**

IN THE KINGDOM

## **CRADDOCK**

Jet Manufacturer from Whitby

**489 SAUCHIEHALL STREET**

Only Branch: 21 ARGYLL ARCADE, GLASGOW

(Phone Douglas, 532)

## **Surgical Instruments and Appliances.**

HOSPITAL FURNITURE, PORO PLASTIC JACKETS,  
ARTIFICIAL LIMBS, FOOT EASERS, TRUSSES,  
BELTS, ELASTIC STOCKINGS. *Lady Attendant.*

□ ■ □

# **G. B. RITCHIE,**

Surgical Instrument Maker,

**33 BATH STREET, GLASGOW.**

# NORTH BRITISH & MERCHANTS

In which

F

A TH

is an Fa

Prospect

Ch

Gla

T. &

AUTOT

Mode

Glasg

tion,

notab

Prices

Also

on Ja

Sp

518 S

Author *Glasgow, Univ. of*  
Title *Calendar 1918-19*

NAME OF BORROWER.

DATE.

University of Toronto  
Library

DO NOT  
REMOVE  
THE  
CARD  
FROM  
THIS  
POCKET

S.

and

1 of

re-

Acme Library Card Pocket  
Under Pat. "Ref. Index File"  
Made by LIBRARY BUREAU

Where Illustrated Catalogue may be had on application.

## **FEDERATED SUPERANNUATION SYSTEM FOR UNIVERSITIES**

---

Under this Scheme, which was approved by  
the Board of Education, only **ONE** office was  
selected to transact **ALL** branches of insurance.

That was the

## **LEGAL AND GENERAL LIFE :: ASSURANCE SOCIETY ::**

---

**ESTABLISHED 1836**

**ASSETS £12,000,000**

Write for Tables of Rates, and details of  
the Society's wonderful Bonus Record to the  
Chief Office for Scotland

**136 BUCHANAN STREET ... GLASGOW**

**A. V. LANE, B.A., Resident Secretary.**

---

## **James Thomson & Son ROBE MAKERS**

**By Appointment to the University**

**189-191 WEST GEORGE STREET  
GLASGOW**

---

**TAILORS AND CLOTHIERS  
CLERICAL and LEGAL ROBES in STOCK or to ORDER  
GRADUATES' GOWNS AND HOODS ON HIRE**

**Undergraduates' Scarlet Gowns, with correct Faculty Badges**

**A Representative is in attendance in the Reading Room on Graduation Days  
to HIRE GOWNS AND HOODS**